

SPECIAL EDITION | EXCLUSIVE RANKINGS

MACLEAN'S

CANADA'S WEEKLY NEWSMAGAZINE | www.macleans.ca

NOVEMBER 17 2003

UNIVERSITIES 2003

MEASURING EXCELLENCE **AN INSIDER'S GUIDE**

BY ANN DOWSETT JOHNSTON



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Karen Yam, an honours
microbiology and
immunology student

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THE FREEDOM TO CHOOSE

University is where we decide what we care about. That's terrific—and terrifying.

A COUPLE of weeks ago, my wife and I were invited to a dinner at the university she attended as an undergrad never mind how long ago. We arrived early, and spent the time exploring old haunts. She was surprised at the wave of affection she felt: my only surprise, I guess, was that she was surprised, because she'd always spoken warmly of the lessons she learned there, and professors and friends she met. I don't get to my old university often

(it's in another city) but when I do, I feel smaller warmth—though that may not be reciprocal on the part of some pals.

People whose university years are well behind them often say that students don't fully appreciate their time at university until it's done, but anecdotal evidence suggests otherwise. As our annual university ranking issue demonstrates, the task of choosing which university you like—and which one will like you enough to let you in—is as tough as, or perhaps tougher than, finding a new job.

That's logical, because the two pursuits are directly related: like jobs, all university degrees are created equal, and the differences that campus offers are dramatically different. My wife moved away from home for the first time when she enrolled in university, but campus, which has a long history, is dotted with old buildings and academics. By contrast, I lived at home while at my university—which has a crash schooler in two and two different campuses.

For many students, university marks the first time they meet other people of their age with whom they share something in common other than growing up in the same neighbourhood. Especially for students who move away from home, university is the equivalent of an equal-opportunity employer: everyone starts off on the same footing, and you get to escape, if freed by, from previous perceptions that others had of you. A high-school jock has to win his or her again all over again; the geek gets a new chance to be cool; the perpetual underdog discovers he, or she, isn't as alone in the world as it seemed in high school.

University campuses are divided between students who enjoy the ride, and those focused on the destination. In some ways, that's a tragedy to witness university know-

“Everyone starts on the same footing, and you can escape the previous perceptions others had of you.”

ing, exactly what you want to do with your working life. But that rules out the chance of a lifetime to learn unrelated things just for the sheer pleasure of doing so.

Which leads to a hard lesson for parents as they look over university understanding that their own life lessons don't necessarily

apply to their offspring. Just because you know what you wanted to be in life at age 19 doesn't mean your son or daughter will, or should. Done properly, a university education is an exercise in reflection on themselves, their goals, and the kind of future they want. While high school is self, for the most part, a place where others tell students what they must know, university offers an environment where they, for the first time, decide what matters to them. We should never forget how terrific—yet terrifying—such freedom of choice can be.

Maclean's won six credits recently at the Advertising Design Club of Canada awards. Congratulations to Art Director Donna Ruggles, Deputy Art Director Gary Hall, and the design team.

Anthony Wilson-Smith

awards@maclean.ca in comment on the Editor's Letter

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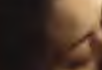
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'I'm still as big an NHL fan as I ever have been, but now I'm more of a hockey fan, not a player fan. The salaries have gotten out of hand.'

—SCOTT MORRISON, *Whitecourt, Alta.*

There's no 'I' in team

As a Grade 12 student, I often wonder how a man playing a sport for a living is able to bring home a nine-figure paycheck during two seasons combined ("Game over," *Cover Nov. 3*). I do not understand why a hockey player, or any athlete for that matter, can net millions on an average income. Are they superior beings simply because they can skate fast and hit a puck into a net? Perhaps it is time for NHL players to realize there is no "I" in team.

William Gore, Hamilton

How inspiring it is that at least some professional athletes today are starting to gain some grasp of reality. And not surprisingly, it's hockey, with its large collection of Canadian players, that this trend has taken to first. It is encouraging to read this in the *Calgary Herald* and with players and owners of the team's franchise. Your article should be handed to all NHL players prior to their collective bargaining. It is truly up to them whether there is a 2004-2005 season. With healthy doses of luck and common sense, they will come to realize that, although professional sports is a business, it must exist within the current economic reality. And without that reality, 23.9 per cent salary increases are impossible.

Bruce Siskin, Toronto

I grew up in small town Saskatchewan in the '60s, and from an early age my life revolved around hockey. But over the last few and years, my interest in the NHL has died. I cannot recall the last time I watched a regular season game from start to finish. At this point, I eagerly await the death of the NHL in Canada so we can once and for all get rid of hockey while the CFL has done for football. Maybe some day, hockey fans in places like Saskatoon and Halifax will be able to ride the entire family to a professional hockey game for about the same price as admission to a movie theatre.

David Coquet, Vancouver



Kolbecks, pay cuts and extensive hits cannot bring Canadian-based hockey to the financial power of their American rivals. So, in their hour of need, they are a real hockey league, with teams in hockey towns like Halifax, Quebec City and Kelowna, B.C. Hockey, like Canada, needs more courage and civic pride. Let the money grubbers play to the fat farms of Detroit and Florida. My NHL has never been for sale.

Kevin Graydon, Oliver, B.C.

Your reference to the NHL's "unprecedented move" of opening the books of its owners to our accountants failed to mention the results of our analysis at the National Hockey League Players Association. It showed

Unappreciated | Fans have to look hard for hockey on U.S. TV

"One of the reasons the NHL is struggling in the U.S. is the lack of TV coverage," writes Lou Latta for *Real Sports* from this side. With its poor ratings, he says, the NHL can't compete with the likes of the NFL, which he finds it difficult to believe was spared similar scrutiny. "He also notes that many Americans 'think God Canada is on this planet to give us the great game of hockey'."

significant shortcomings in the league's numbers with hockey-related revenues underserved by more than \$40 million for just these five teams. The NHLPA has put forward a comprehensive and progressive proposal to address the NHL's vested interests, including those of the Canadian franchise. Unfortunately, the NHL is currently focused on a PR campaign to justify its plans for a lockout to try and force a salary cap system on the players.

Neil Smith, Senior Director, Business Affairs and Licensing, NHLPA, Toronto

I have always thought it would be more sporting to give each team a salary budget that they must stay within. Give the GMs the chance to decide whom they think they will get the biggest bang for their buck—a million-dollar goalie or a million-dollar centre. I also think that the \$3 million given to Canadian teams other than Montreal and Toronto from the Canadian Assistance Program would be better spent on education and even minor sport development. It is, after all, only a game.

Kelly Gilchrist, Kelowna, B.C.

When are the owners and players going to wake up and join reality? I cannot afford to take my wife (or children/grandchildren) to a game as well as pay for gas and eat at a restaurant to make an evening of it. I don't have business expenses to pay for these things. I'm thankful for moments of games played for the sheer fun of competition that made my childhood so meaningful.

David Ellsworth, Burlington, Ont.

Stand firm or fall

Amazingly by a death and resurrection the dire predicament of the doctrine of the Catholic Church ("last game," *Religion, Nov. 3*). Experts state that the Church is out of step, out of touch and irrelevant in today's modern times. The Church has been around for 2,000 years, and its doctrine and dogma has remained relatively intact. Changing with the times is the essence of faith, not religion. Those offended by the notion that the discrimination of marriage, the family and the sanctity of life is caused by the rejection of faith and spirituality are perhaps offensively naïve. Sometimes in today's world, someone has to stand for something, or we will fall for everything.

Chris Lavita, Toronto, Ont.

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Prose that flows

After more than 20 years of devouring every Maclean's issue, I am compelled to share my appreciation of Brian D. Johnson. With his dollop of thought and construction, his articles have been flowing right off the page over the last several months. Writing such as "the action unfolds in an atmosphere ripe with erotic dread" ("Open heart sexuality," Film, Nov. 3) reveals an internal view writer weaving his tapestry with deliberate consideration. Imagine what he could do as an Ottawa correspondent.

Editor: Mike Macleod, Calgary

Senate admission

I found it telling and troubling reading Leo Robber's memoirs, "My travels with Piers," Maclean's Excerpt, Nov. 3. When lobbying for a Senate seat, he does not ask nor offer what contribution he might make in that forum but rather, when participating in the public trough, is more concerned with how time consuming it will be. Surely this is reflective of the biggest problem with a Canadian

Senate made up of big game and party hacks and points out the pressing need to reform or abolish this body.

Dr. Clark, St. Albert, Alta.

Hook, line and dragger

I was very happy to read "The empty sea" (Environment, Nov. 3). As the owner-operator of a business that sells sustainably caught groundfish (caught only by hook and line as opposed to trawling, or dragging, as it is known in Canada), I find it very important that people know exactly how their seafood is caught and the consequences of various fishing methods. Our fisheries are suffering from a number of consequences, but mostly from the impact of trawlers on the ocean floor. Trawling causes terrible destruction to benthic and foraging grounds for fish and has been compared by many scientists to clear-cutting a forest. The fact is, though, that these practices are allowed by our federal government and there is no real opposition to stop them. While consumer influence can make a big difference,

I think we need more people to stand up to our government and let it know how we feel about knowingly allowing the destruction of our fisheries.

Jennifer Radtke, Holden

I agree with the sentiment of your article on the consumption of global seafood because as we need to reduce pressures on the wild fisheries through our consumption habits. One of the best ways to achieve this goal is by farming the products, as we have done over the centuries with other forms of protein such as chicken, beef and pork. Unfortunately, you have given the reader the idea that farmed fish are polluting the environment "with antibiotic-laden, disease-carrying fishes." In fact, under the commercial examples, the farmed salmon that contains less than one per cent antibiotics, with the trend continuing toward less, and they are administered under strict regulations, including withdrawal periods prior to harvest, to ensure a safe, high-quality product for the consumer. Furthermore, with the ad-

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between juggling child care responsibilities, caring for elderly relatives, and work—inside and outside the home—it's no wonder that women often place their own health down their list of priorities.

That often includes ignoring their risk of heart disease and stroke, including their own family history of these conditions, says the Heart and Stroke Foundation.

Understanding your risk factor profile is vital—ask your doctor about the best ways to manage your risk at your next appointment. Be aware of the signs and symptoms of heart disease and stroke. According to the Heart and Stroke Foundation, many women disregard signs such as chest pain (a squeezing feeling in the chest), putting them at even greater risk. If you have been diagnosed with heart disease, review your treatment options.

By managing their risks and watching out for warning signs, women can play an active role in preventing heart disease and stroke.

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Peter Mackay and Stephen Harper should beware of promising government non-interventionism

movement of new technologies for improving fish-farm performance, we are finding agriculture to be environmentally and economically sustainable.

Andy Clark, Nanaimo, B.C.

The need to intercede

Conservative federal political parties can't get away from "non-interventionist government" because they realize Canadians have seen what can result from non-interventionist governments in Ontario and Alberta: the Walkerton, Ont., tainted-water scandal, soaring power rates in both provinces, outrageous natural gas prices for Albertans, despite being on top of the world, and Calgary hospitals being either sold off to the private sector or blown up. Any time there is a problem in our society, Canadians of every political stripe clamour: "The government has to do something about that!" Which is so it

system on the part of these same non-interventionist provincial governments, combined with the federal government's unwillingness to challenge their claims to exclusive jurisdiction, despite the exclusive federal role that Canadians overwhelmingly want to see. Non-interventionist policies have failed at the provincial level, and Canadians are not interested in going down that path at the federal level.

Gerrit M. Macdonald, Grande Prairie, Alta.

Lies and leadership

Peter Marshall has hit the nail on the head about cynicism in Canadian politics ("Two faces of politics," Marshall on the Record, Nov. 3). Does this mean we simply accept that politicians are liars and there is nothing we can do about it? I believe that since Peter Mackay is going to be the fulcrum for a real wave of Canadians who are saying enough is enough. We are finally demanding the highest ethical standards of our leaders and broken political promises will no longer be accepted as the norm. With his decision to promote a Tory merger with the Alliance party, Mackay is at the wrong place at the wrong time—and he didn't even get a fishing trip out of it.

Martha McAuliffe, Nanaimo, B.C.

"We are finally demanding the highest ethical standards of our leaders, and broken promises will no longer be accepted."

It's disappointing to see Peter Marshall endorsing the cynical assumption that "politicians



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Parental involvement in children's activities helps promote their fitness and overall health

any whenever they think they need to say." As he points out, that is "part of the reason so many citizens don't even bother to vote." Small wonder good candidates are hard to find when discouraged with that derisive shrill of cynicism—but greater wonder still that so many citizens forgo their right to vote, then get upset when the government they're saddled with doesn't focus on matters they feel strongly about, or pass laws they value. Too many Canadians still don't seem to understand how important the privilege of voting is. Involvement is rewarding, informative and available, and ultimately could lead to the kind of representation we want and need as a country.

Nicole Hammond, White Rock, B.C.

Broken safety net

I applaud Macdon's far-reaching (and partially changed) but largely ignored issues

low income). The cyclic pattern of saving while you have the money, then using your hole when you run out of money near the end of the month, is very similar to yo-yoing, which wreaks havoc on the metabolism. A pattern of eating and living forces us to be efficient at storing fat, to ensure energy in lean times. What does it mean to help impoverished children get a better start, and to help poor families live secure in the knowledge they will have food until the end of the month? It means helping the parents with their incomes. We are failing at raising the kids who should be able to care for us, run our cities, contribute to our collective well-being in the future. It makes me sad and disappointed for my fellow Canadians.

Barbara Williams, Toronto

In "5 ways to make Canadians healthier," John DeNero is a bodybuilding guru when he

"We are failing at raising the kids who should be able to care for us, run our cities, and contribute to our collective well-being."

says "lowered cholesterol have to go before we decide the battle of the bulge is a fight to the death." But food, video games and more fatty acids are also going to disappear. What we need now are solutions that will give our kids a fighting chance to stay healthy. We need to focus on the school system. Every kid in this country goes to school—what better place to lay the foundation for active, healthy living? Steve Priddy, Head of Health and Physical Education, St. James Catholic High School, Guelph, Ont.

Flights of fancy

Ironically, both Peter G. Newman's criticism of the Sea King helicopters in "Rising fallen kings" (Column, Oct. 20) and assistant deputy minister Alan Williams' defence in "Chopper safety" (The Mail, Nov. 3) are technically correct. Thanks to the enormous number of hours that the maintenance spend inspecting and repairing the Sea Kings, they never fly unless they are certified airworthy. This is precisely why so few of them fly and why they fly so few hours—they are normally not airworthy. As

a symbol, the mission capability of our coalition fighters and destroyers is seriously degraded, to the embarrassment of our commanders and the frustration of ship's crews and warzone allies. The failure to replace the Sea King years ago is a national scandal. However, except for a few journalists like Newman, a minority of the Canadian public and the members of our maritime forces (who are frustrated from expressing their feelings), no one cares. So, the federal government is able to get away with nearly criminal negligence, dereliction of duty

and a blatant abuse of our dollars.

Rob Wilson, Cambridge (Ontario), Toronto

If assistant deputy minister Alan Williams means, the Sea Kings are safe, then maybe he and anyone else in a senior position at the department would like to fly on the aging buses whenever they need to travel on government business. In fact, we could have all members of Parliament take at least a couple of flights each year back to their ridings to prove their faith in these machines.

Mike Jessiman, London, Ont.



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UPFRONT



Justice | Is Canada complicit in this man's torture?

The CIA with the threat of nightmare Maher Arar endured an "extraordinary rendition," which is spy-speak for cases in which low-level terrorism suspects are "surrendered" to a country that reflects certain extraordinary, at least, in the right way. In September 2002, Arar, a Syrian-born Canadian, was stopped in New York by U.S. officials after a connecting flight from Toronto where he was at a family wedding. "We're delighted he was deported to his country of origin—either than his home in Canada where he'd asked to go. That began an ordeal the 33-year-old father of two resulted in chilling details: 10 months in a solitary cell that was like a "grave," three by six by seven feet high, loaded by rodents and emitting odor. Punctures and beatings with a shrouded electrical cord. Then, suddenly, release. No charges. No explanation. No apology.

Small surprise, then, that Arar wants a public inquiry. "The only way I will ever be able to move on in my life," he said, "is if I can find out why this happened." Prime Minister Jean Chrétien has refused, preferring to leave the matter to the most liberal RCMP Public Complaints Commission. But Arar's case reaches far beyond the Muslim sect. Canadian consular officials visited him while he was in U.S. custody. So were they caught unaware by the deportation? Or were they just happy to send him back?

Arar, with wife Mona, March in Ottawa, and Syrian-born twin daughters



Foreign Affairs Minister Bill Graham argued last week that it can be counterproductive to push Middle Eastern regimes too hard. But that's cold comfort to Arar, and to William Saegert, the Canadian who spent 31 months in a Saudi jail on trumped-up charges and who blasted Canadian officials for not believing in him. Also for the family of Abdullah Alsalhi, another Canadian man in a Syrian prison who has not been able to contact his family in 16 months. More to the point, it was the U.S. that sent Arar on a flight to hell. That's where the pushing ought to begin. CHARLIE KELLS

ScoreCard

Yves Abraham: Selection expert and operator of Lerner's trading share-researcher select fund editors in his office near Quebec City. He is, as a Canadian, who knows domestic fund a little better. He is, however, known to be before making public performance.

Yves Abraham: University of British Columbia's quarterly fund research quarterly the fund's average return is 11 per cent of general investment. The other 31 per cent of the time, presumably, the fund's average return.

Yves Abraham: New moral institutions have not been established. Since the 1990s, private accounts and cabinet members have been found to be in the hands of the public. The public may find it hard to believe the actual results of their efforts.



Mark McVittie: N.B. Senator's captain of the team that got the funds in the two-year period. He is, however, known to be before making public performance.

Take Flight: Winnipeg's volunteer board to discuss after the police helicopter crash. It is, however, known to be before making public performance.

Quote of the week | "There are a lot of hairy girls in winters. You wear long sleeves and pants and you become a gorilla." Country diva SHARINA TWAIN, telling a Nashville audience that she doesn't always shave her armpits because of her northern Ontario upbringing.



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component of "good" cholesterol into 47 percent reduced arterial clogging in six weeks, a Cleveland doctor reported. The ingredients act as a kind of liquid *Diurex* for the coronary arteries, the doctor said, and it is derived from a protein found in the cholesterol of Italian villagers who lived long lives.

UNSTABLE An Ontario, Ont., hospital is monitoring 146 patients who underwent heart-and-lung transplants over a three-day period with equipment that wasn't properly certified. The hospital said it could take six months to determine if any of these patients have contracted infection like hepatitis or HIV.

CANADA

ELECTIONS Saskatchewan Premier Lorne Calvert saw his NDP riding into urban strongholds and squeak back to power, winning 30 seats compared to 28 for the conservative Saskatchewan Party of Elwin Hermanson. A key factor seemed to be Calvert's allegation that his rival would sell the province's esteemed Crown corporations.

The victory leaves the West with the country's two NDP governments (the other is in Manitoba), and ends an election cycle that saw eight provinces go to the polls this year. There, Quebec, Ontario and Newfoundland, changed hands.

MONEY LAUNDERING A federal coordinating agency said terrorist organizations appeared to have laundered \$22 million through Canadian financial institutions last year, part of an estimated \$460 million in suspected criminal transactions.

AIR-INDIA In five days of compelling testimony, the key witness at the Air-India trial, a former partner of accused Vancouver businessman Rajpal Singh Malik, told the court he had confessed to her in the spring of 1997 his role in the plot to gun bombs aboard two Air-India flights in 1985. One exploded at Japan's Narita airport, killing two baggage handlers; the other destroyed an airline with 329 on board. The woman said Malik was only convinced the suspect was not dramatic enough to charge

world opinion about the Sikh fight for a homeland. A former daycare worker, she is now in a witness protection program, and said she has been forced to relocate six times in five years because of threats on her life.

POLITICS Former Ontario premier Mike Harris took himself out of the race to lead a united Conservative party, setting off new fears among old-line Tories that their party was being taken over by the Canadian Alliance. Prominent PCs such as former Newfoundland premier Brian Peckford added their names to a movement to slow the merger process and force more debate.

The federal surplus will be much smaller this year, an estimated \$3.5 billion, of which Ottawa intends to hand over \$2 billion to the provinces for health care, Finance Minister John Manley said.

HELL ANGELS Quebec police raided four Hell's Angels drug rinks and arrested 31 people. They indicted prominent Montreal defense lawyer Serot Cléche, who was charged with running the criminal operations of one of his clients, currently in prison.

GANGBUSTERS Rival groups of young gothic-Burman and Iranian gangs, according to a witness—confronted each other with knives, words, baseball bats and hammers after night class at a Toronto high school. An 18-



RINGING OUT A bell tower in Little Chapel Island St. John's, Nfld., has been destroyed by the 200-year-old landmark.

year-old boy died of stab wounds in the fight—Toronto's fifth homicide in a week.

JUGGING A Nova Scotia judge can compel provincial officials to regain to him their progress in creating minority French language high schools, the Supreme Court of Canada said. Some justices balked at handing that much supervising power to lower courts but the majority justified the approach given the "tough history of government inaction" in this area.

BY MICHAEL DE ADLER

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IRAQ: A NEW VIETNAM?

Comparisons are never perfect. But the similarities are obvious—and troubling.

THEIR'S a saying about the media and the military that both are "always fighting the last war." Generals like to avoid previous mistakes, while reporters like to assume that things could play out the same in new conflicts as they did in past ones. History proves that isn't always the case, yet the occupational leap-keeping—in this will be a moment right here.

These days, it's common to hear Iraq described as a "quagmire" or "another Vietnam," or to hear people say "isn't this what happened to the Soviets in Afghanistan?" I even heard the "V" word bawled around on the right-wing, pro-Bush, Fox News the other day. I would describe "fair and balanced" network that leads CNN in viewers by a significant margin. In fact, the *National Post* boasts one of the top editorial pages in North America—perhaps anywhere in the West—where you find few, if any, questions challenging U.S. strategy in Iraq. The *Post* must have been outraged at the nerve of U.S. reporters who, stung by criticism that they were Bush-pandering from the new up to war, aggressively questioned the President at his own conference the other day.

As the post-war U.S. death toll mounts into the hundreds, and Iraq civilian losses into the thousands,

“

it's common to hear Iraq described as a "quagmire," or "another Vietnam." You even hear the "V" word used on the right-wing, pro-Bush Fox News.

even though there's no doubt as to what the U.S. will prevail in the end. With its tremendous firepower and US\$887-billion budget, that should be the case. But there's more to this than firepower, and everyone, especially Bremer, knows it.

Against that backdrop is the Vietnam competition. In the first days of 1968, at support in the U.S. for the Vietnam War was beginning to erode, the Viet Cong made their most significant military move—the Tet offensive, named after the Vietnamese new year. In its initial days it was a brilliant maneuver as the North moved right into the heart of Saigon, attacking key points, including the U.S. embassy. Media coverage of the ensuing chaos further dented support for the war, and eventually helped cost Lyndon B. Johnson his presidency. It's still considered the turning point in that conflict. The fact that within weeks U.S. troops had destroyed the invasion force ensured that the perception had become the reality, which was that Vietnam was a war the U.S. could not win.

We're not there with Iraq—not yet, perhaps never—but Iraq's resistance leaders may see what's happening now as their "Tet offensive." That includes stepped-up daily attacks during Ramadan. This wouldn't be the first time an U.S.-Iraqi force took to Southeast Asia for a precedent. Viet Cong pulled before the conflict of a plan to use Viet Cong-style guerrilla tactics against the Americans, knowing that engaging in conventional war would be futile.

So call it their "Ramadan offensive," and watch what impact it has south of the border—not on the U.S. media, whose songs can often be more embarrassing than informative—but on the people, who ultimately will be the judge of how long a Bush-led America makes it stand in Iraq.

Peter Mansbridge is Chief Commentator of CBC Television News and Anchor of *The Morning Show*. E-mail: pm@news.mansbridge.ca

Passages

SELECTED Hockey great Wayne Gretzky, 42, who hand-picked the men's gold medal team in the 2002 Olympics, assumes the same job, executive director, for hockey's World Cup in September 2004. It's a competition Canada has never won.

Goalie Grant Fuhr, 41, whose quick glove helped the Edmonton Oilers to five Stanley Cups, and American-born Pat LaFontaine, 38, a New York Islander center whose career was cut short by concussions, were inducted into the Hockey Hall of Fame. So were Detroit Red Wings owner Mike Ilitch, 74, and Brian Kilrea, 65, a long-standing coach in junior hockey, in the builders category.

WOM: Kenyan-born author M.G. Vasanji, a former physician, made history as second



Gillie, the glamorist of Canadian literature, for his novel *The In-Between World of Vikram Lall*. He also won the \$25,000 prize in 1994, the first year it was awarded.

WOM: Saskatchewan-born writer Alissa MacLeod was the only non-American to win a Lambda Foundation literary award this year, a US\$125,000 prize awarded by a New Mexico group that gives out nearly \$1 million annually to the arts.

APPOINTED Former Quebec minister Brian Mulroney, 64, and former Quebec premier Daniel Johnson, 58, will be the high-profile chairmen of a team to implement a new "super-hospitals" in Montreal, a decade-long proposal that has been stalled by successive governments.

DIED Righteous Brother Bobby Hatfield, whose transcending tenor was the perfect complement to baritone partner Bill Medley, was found dead in a Kalamazoo, Mich., hotel room of unknown causes just before the duo was to perform. He was 63.

DIED Ashok Chaudhary, a charming Montreal restaurateur and former journalist, died a personal shock to Third World activists as he passed at the Montreal Gazette. Chaudhary, 52, died in hospital following complications from transplant surgery.

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MEASURING EXCELLENCE

With the largest incoming class ever, and more students on the way, universities face unprecedented demand to deliver. By ANN DOWSETT JOHNSTON

PICTURE THIS It's hot, muggy morning in Kingston, Ont., the day after Labor Day—a day most warmer than fall. But the sort of morning when you could be dogged for playing hooky down by Lake Ontario, watching the white sailboats meander on the horizon, reading a book under the trees. Certainly, if you were one of the thousands of first-year Queen's students who had just spent the long week-end cooped up in the family car, idling bumper-to-bumper along the 401, hugging your luggage—emotional and physical—en route, you might be tempted. Especially waking one black from the lot, with no parents to tell you otherwise.

Of course, if you were one of those students, your timetable had already been set: the official beginning of fresh week—the traditional Queen's Welcome Ceremony—was scheduled for 10 a.m. Several mothers made sure their sons had blazers and ties for the event, but the mothers and fathers were long



gone. For the first time ever, the event was to be held after most parents had left, partly because of numbers: this was the largest incoming class in Queen's history. And it was also the youngest: almost three-quarters were under 19, 600 were 15 years or younger, 16-year-olds. Heck, there was even a 15-year-old. More than once, organizers had asked themselves what were the odds that students would show up without parental nudging?

The odds were good. Just after 9:30, hundreds of fresh-faced first-year students began thronging up University Avenue. In shorts and T-shirts and Beanie Babies, they filed bleacher upon bleacher onto this dirtiest air-conditioned Jack Harry Arena. By 11, when the wince of the bagpipes signaled the beginning of the academic procession, the place was filled to the rafters. Whipping on his marching band, principal Bill Leggett strode up the red carpet to the podium and said, "Congratulations. Close to 40,000 students applied to come to Queen's this year. Thirty-five hundred of you were successful. Today, just being here is a huge accomplish-

ment." And for the next half hour, there was music in that tired old arena, a sense of promise and possibility in thousands of young men and women, turning themselves with their cream-colored programs, hunched tentatively to what Leggett had to tell them. He spoke about the opportunities and the pitfalls of university life. He told them that they were part of a proud tradition. He encouraged them to make the most of their time at this special place. By the time they had much to sing, O Canada, the 16th morning class had been well served for what lay ahead.

It was a bawdy beginning, and Jo Anne Brady looked relieved, a little wary, as she watched the students flood down the steps. As Queen's regents, she had overseen the processing of those 38,135 applications—and she was unsurpassed by the turnout. With an average entering grade of 88.9 per cent, the class of 2007 had competed long and hard for their seats. And they certainly weren't alone. This year, all across the country, high-school students played the largest and most dramatic game of musical chairs in Canadian history. Queen's infamous double cohort, of course, was a major factor. The province, home to roughly 40 per cent of Canadian

Between classes
At Queen's
University in
Kingston, Ont.



'It's like the Yonge and Bloor subway stop in the middle of rush hour, all the time.'

—JAM LAMORELLA, STUDENT UNION PRESIDENT, UNIVERSITY OF TORONTO IT SCHOLARSHIP

students finally eliminated the fifth year of high school—producing a blockbuster double class of high school seniors. Applicants to Ontario universities, from this group alone, shot up 47 per cent. How tough was it to get in? It depended on the program and the university. Many—Brock, Guelph, Ottawa, Carleton, Ryerson, Windsor, Toronto, York, Wilfrid Laurier—made enormous boosts to their first-year intake. Queen's, on the

other hand, stated that it would see increases by more than 200 and still preserve the quality of the undergraduate experience.

When it came to elite programs, the competition was beyond brutal. Five thousand hand-sorted 270 seats in Queen's commerce; 3,000 for 160 spots in McMaster's school of health sciences. At Waterloo, 1,827 students were jockeying for 100 places in accounting and financial management. And so on.

Which is why many students hedged their bets, applying out of province as well. Montreal's McGill University, a top choice for many, saw a 57-per-cent increase in applications from Ontario: 6,911 in total. But

was McGill their first choice or their "hushy school"? There was no way of knowing. To avoid being oversubscribed with acceptance, the admissions office decided to vet the best high for Ontario students in the early round of offers. By May, when the phone was ringing off the hook, McGill posted an open letter on the Web, aimed at future Ontario recruits: the university, it said, had "apologized over many of the rejections" issued.

In recent weeks "deflated," it said, "can be a deeply disappointing experience. The disappointment is even more profound when an applicant possesses a strong academic record." It then listed the "admissions targets": 87.3 per cent, average: 89 per cent; electrical, computer and software engineering: 92 per cent. In the end, Ontario students received higher marks than those from any other region in Canada. Says registrar Sylvia Frank: "We tried to squeeze in as many students as we could, responsibly."

Which, as a motto for the entire country, is pretty much bang on. This year's crunch was by no means limited to Ontario. And

no, it's not a one-year wonder. The double cohort is just part of a much larger national story, one that has been unfolding for some time, and will continue to do so into the next decade. This fall, with an increase of more than 50,000 undergraduates students, Canadian universities experienced their biggest year-to-year enrollment increase ever—for the third year in a row.

Keep in mind: even at the height of the baby boom bulge, the biggest year-to-year growth was 25,000. Canada responded by building new universities and filling them, with academics and faculty. Now, as the babies of that well-educated baby boom generation—the who boom—beat a path to the post-secondary dooryard in record numbers, the faculty who taught their parents are heading in the opposite direction. Retiring in record numbers as well. In 1996, there were 532,000 full-time students enrolled in Canadian universities and 36,400 full-time faculty to teach them. This fall? Virtually no change in the number of full-time faculty.

Three years ago, experts forecast that the Canadian university system was going to have to accommodate a growth of 700,000 students by 2011. Now, those numbers look,

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extremely conservative. As of this fall, Canadian universities have already absorbed half that growth, with enrolment of roughly 745,000 full-time undergrad and graduate students. The result, in many places, is a spare capacity of un-provisioned proportions and a ratcheting up of entry grades as competition goes through the roof. As one university president said to another at a recent gathering in Toronto: "Let's face it, there are some of us who wouldn't get into university right now."

Take the West Coast: this fall, an student whose average was less than 80 per cent would have found a seat in arts or science at the University of British Columbia, Simon Fraser or the University of Victoria. Along with Ontario and Alberta, B.C. is facing steep demand from university-bound students—and it's the province with the lowest number of university seats per capita. If were to match Ontario's rate, B.C. would have to almost double its current capacity, adding 50,000 spots to its 65,000.

Alberta has similar challenges. Calgary, for instance, is growing faster than any other major city in Canada, and demand for education is high. Between 1999 and 2006, the University of Calgary absorbed a quarter of the post-secondary growth in the province. But recently, due to budget constraints, the university announced its decision to cap

undergraduate enrolment in the coming year. With each faculty setting a quota, students will need even higher grades than they did this year, especially in first-year business, where the current entering average was 86 per cent, or the bachelor of health sciences program, where it was 92 per cent. Says president Harvey Weinstein: "It's simple: there are more qualified students than we have the capacity to provide a quality education for. The government says, 'you're raising standards.' I say no, we're preserving quality. When there are no seats, it's a quality issue."

Preserving quality, preparing for the future, innovating at the same time—it's a pretty tall order. These are the challenges keeping many gifted university leaders awake at night: attracting and keeping the right students, at the right time, in the right numbers. And let's not forget: ensuring that the entire landscape is engaged.

A landmark, especially this year—six-year at one group faculty has called the equivalent of a noble homicide, "academic invasion of The Perfect Storm." According to the 2002 winners of the prestigious JMI Teaching Fellowship raised concerns about the quality of the university learning experience, judging it as C-minus. Their concerns: all co-ops, students are forced to passively in lectures, rather than being actively engaged.

So, does it all come down to numbers? Well, in some ways, yes: getting the numbers right has a big effect on the student experience. Many universities faced the same conundrum as McGill did in predicting their yield rate: namely, the number of students

PRESSURE POINTS

This page in applications this year flooded entry points in several regions of the country. Here is a sampling of some of the higher cut-off marks for general arts and science programs, plus a variety of competition efforts—many of which include application requirements or non-academic profiles. This cut-off is the lowest grade average of any student admitted, before scheduling class timetables.

UNIVERSITY	PERCENT
Arts	82
Science	87
Commerce	85.5

SIMON FRASER	PERCENT
Arts	80
Science	86
Competition Science	88

VICTORIA	PERCENT
Arts	81
Science	81

QUEEN'S	PERCENT
Arts	82
Science	83
Marketing Management (Co-op)	90

TORONTO (St. George campus)	PERCENT
Humanities/Social Sciences	81
Science	86
Applied Science and Engineering	80

QUEEN'S	PERCENT
Arts	81
Science	86
Engineering	82
Commerce	88

MCGILL	PERCENT
Arts	82.5*
Science	85.5*
Commerce	85.5*
Engineering	85.5*

DAVIDSON	PERCENT
Arts	78
Science	78
Computer Science	80

QUEEN'S	PERCENT
Arts	81
Science	86
Engineering	82
Commerce	88

*Cut-off for Ontario students
*Cut-off for students in the rest of Canada entering Queen's where students are admitted using 11 scores.



Taking part in a tuition grant at the University of Alberta.

who, having received offers of admission, would accept. Brady aimed for a growth of 200 at Queen's and ended up 11 students above target. Others weren't so close. Tiny Acadia University in Wolfville, N.S., was aiming for a total of 3,700 students and ended up with 3,900. "We assumed that a lot of the Ontario students would be double booking," says new president Gail Dettmer-Gonthals.

"Taking more students means having to hire more faculty, and because we're in a rural setting, it's hard to find the quality we want. We're adapting, but we're feeling the strain."

She wasn't alone. There was strain on many campuses, in this and beyond. Things were especially tense at the very crowded Scarborough campus of the University of Toronto, with the arrival of 13,160 first-year students. Particularly troubling was the postponed opening of the library within the \$25-million Academic Resource Centre. For the first two months of school, students had to order books from the downtown Toronto library—with delivery taking up to five days.

"Last year, classes were crammed," says Dan Bandiera, Scarborough student union president. "But you could walk down the hallway and not bump into anyone. This year, it's like the Yorgo and Bloer subway stop in the middle of each hour, all the time from 7 a.m. to 7 p.m.—limpoo galore." So what's working? "Faculty are pulling more than their own weight, holding extra office hours. Because of the people, it's working."

"What if you give a party and everyone decides to come?" asks Herb O'Heron, as-

sociation analyst at the Association of Universities and Colleges of Canada. "That's what it's like right now—a party where the whole place has sold out." This year, many university residences turned single rooms into doubles, doubles into triples—and still had trouble finding space for incoming students. In June, when Wilfrid Laurier University in Waterloo, Ont., discovered it had promised room once to 2,994 first-year students and only had space for 2,375, administrators selected a package worth \$2,500—a choice of a computer or a BlackBerry, plus books and food credits—to anyone who would give up their spot. Fifty-one students accepted the offer, and the rest were accommodated in a variety of spaces, including nearby apartment blocks.

Similarly, McMaster in Hamilton, having guaranteed residence to every incoming student with \$6 per room—up from last year's 75¢—realized that its 3,238 residence beds would not cut it. Even after creating 322 extra spots by stippling some double rooms, they were short. The university offered a \$1,000 credit for room or books and a full deposit refund to anyone who would remove their name from the residence list. Only eight students.

Which comes as no surprise. Contrary to what management guru Peter Drucker predicted several years ago, the death of the traditional campus experience has been greatly exaggerated. And for that reason, Heather Munroe-Burns, the new principal at McGill, made it one of her top priorities



"Our funding space for incoming students was important for families."

—HEATHER MUNROE-BURNS
PRINCIPAL
McGILL
UNIVERSITY

to purchase a property in downtown Montreal, one that could be transformed into a residence. For several years, McGill had been reduced to using a lottery system to determine who got into residence. The university lost many bright students in the process. But the purchase of the Renaissance Hotel on Pier Avenue, a five-minute walk from campus, allowed McGill to make a first-year residence guarantee for the first time in a decade. Says Munroe-Burns: "There are wonderful benefits that can accrue from being an undergraduate in a research-rich environment—and our having space for incoming students was very important for families."

The new 617-bed dorm has become the destination of choice. While past the lobby, with its sparkling chandeliers, plush club chairs, marble bustro tables and cherrywood recreation deck—now home to the residence security guard—and you enter a student dream world: each room with its own private bath, double or queen-size bed. A billroom transformed into a quiet study area, with wicker chairs. Football tables, pool tables, a pizza oven from California. "I've always wanted dark wood furniture," says floor fellow Leo Skerzys,

giving a tour of her two-room corner suite. "And now I have it." What does she think of Munroe-Burns? "She's cool!" says the dreamlocked third-year student. "She came to our house for Pub on January 1st, I'm not sure if she had a beer, but she was there, talking to students."

Talking and listening, keeping the place engaged—that's the major challenge. But when the going's tough, the tough get innovative. "If I had \$100 million, could I do better?" asks Alanna Summerlee, the new president of Ontario's Guelph University. "Absolutely. But the sky is falling mental-

ity doesn't help us improve." Over the past several years, as provost and vice-president, as deacon, Summerlee helped launch a series of initiatives at Guelph, including the establishment of Student Learning Groups in courses where the number of Ds and Fs were higher than expected. Senior students coach those who need help. As well, the university launched a small series of first-year seminars, giving groups of 15 students the opportunity to tackle interdisciplinary questions with senior scholars. Says Summerlee: "I'm not interested in the blue-tag-paparazzi approach to teaching, whereby

I tell you and you ask it up."

Neither is Chris Biddle. Walk into the 31-year-old insect ecologist's lab at McGill's Macdonald campus, and the first thing you notice is the tarantula—a gift from a former undergrad now doing his master's at UBC—sitting in a plastic box above the microscopes and hundreds of little glass vials. The next thing you notice is the very animated (like Biddle, a second-year agriculture student, eyes crinkled as broadly as a friendly spider) one of two undergrads working in Biddle's lab. Biddle is spending as many as 30 hours a week in the lab, working on her thesis on the role of spiders in keeping vineyards healthy. Recently, the 22-year-old had one of those rare *ex nihilo* moments: after several hours searching a spider under the microscope, she discovered a species that had never been identified in Quebec before. "Which is huge!" says Biddle. "Imagine the attention if that were a mammal!"

If Biddle and Biddle are interested in the role of spiders in consuming bugs, Greg Matishewski is looking at bugs as he differently—namely how bugs resist drugs. Working out of the famous Lyman Duff Medical Building, the chair of microbiology and immunology at McGill has been working hard to find a vaccine for a formal spirochete called leptospirosis. A parasitic disease spread by the snailfly, leptospirosis—which kills roughly one million people annually—is especially prevalent in South America, India and Africa. Last year, the World Health Organization funded Matishewski's research on a new vaccine for the disease.

Not only has he spent years working on this cause, but many have emulating the next generation of researchers. "These students," he says, "are the ones who will have to take care of the rest of us." Each fall, Matishewski and his colleagues welcome an elite group of 25 fourth-year students into their infectious disease lab. Anne Chisler, who graduated from McGill last year, '06, her honors project in Matishewski's lab. Says Chisler: "It was a great opportunity to learn research, to learn how you can succeed as a scientist. Greg's lab is full of very gifted researchers—open-door follow from Scotland, two research associates from India and China, lots of people who are where I want to be in five or 10 years. And of course, Greg has made some pretty amazing progress in developing a potential vaccine for the disease."

This year, Chisler was assigned into the

highly respected Harvard School of Public Health, where she is pursuing a Ph.D. in immunology and infectious diseases. "There are certain things that aren't well funded at McGill," says the Washington-born student. "The library system is pretty horrible. But the opportunity to do lab research is undervalued is pretty much an essential if you want to get into one of the more competitive programs."

Ask many people what was important about their university years and they'll likely mention one person—a mentor, a guide, someone who recognized a gift that could evolve into much, much more. This is the sort of experience that Chisler has had with Matishewski, that Biddle is having in Biddle's lab. Ask Biddle where he developed an interest in spiders, and he'll tell you about a wet afternoon working on an ecology project at Guelph. "My professor, Dr. Larson, asked me to hang off a few cliff faces to look at old cedar trees, and I said, 'Holy cow, look at all those spiders!'" The rest is history.

"What is this atmospheric thing we call quality?" asks Sheldon Levy, a vice president at the University of Toronto. "Well, I can tell you when you know you don't get it—when you have too many students per faculty." Levy remembers being in his fourth year at

York, in a class of five or six at linear algebra, and the professor saying: "Sheldon, you have the gift in mathematics." Says Levy, "I think most people are like me. They need encouragement and counsel and mentorship. None ever overtook the superior. But what about all the others?"

If that's the definition of quality, many students would say, in Levy's parlance, they "don't quit." Michael O'Neill, a first-year student enrolled in international development in Guelph and winner of a prestigious Canadian Merit Scholarship Foundation National Award, would agree. "In one class, there are 300 students filling an already cramped room to capacity," says the 19-year-old. "The prof takes very few questions and never opens up the floor for discussion. There is no room for critical analysis." So, what is working? "Speaking directly with my professors. It happens rarely, but it's usually surprising. Unfortunately, the professors who make themselves available are always swamped with things."



"These students are the ones who will have to take care of the rest of us."

ANNE'S DUFF MEDICAL BUILDING, CHAIR OF MICROBIOLOGY AND IMMUNOLOGY

There are many university presidents who would agree with O'Neill's assessment of the situation—but not on the record. They'll say we're doing the best we can. Our current numbers are up, and faculty hiring hasn't kept pace. Off the record? Says one, "We've done everything we could to whitewash this thing, that we are maintaining quality—and that's a bunch of crap."

Let's face it: those heads of O'Neill is part of an ongoing to continue for a long, long time, in his and his peers' head to grade school, medical school, law school—and their younger brothers and sisters follow behind these

"We are: we go to tell them, that there's no room?" asks Paul Davenport, president of University of Western Ontario in London, Ont. "We can't tell those students the doors are closed." Next fall, Queen's will take the same number of first-year students that add this year. In 2005, it will decrease its intake by 250, increasing on the graduate side. Meanwhile, at the University of Toronto, the two suburban campuses will maintain their size, while the downtown St. George campus reduces its first-year intake. Others are making similar decisions.

Which means the question is there good

long-term plans to deal with the demand for enrolment growth? "No," says Calgary's Weinberger. "We're scrambling. And the reality is that we have more and more students each year who are qualified, for whom there is no room—and not just faculties, but faculty." He pauses. "Let me express a little sympathy for government. I don't think they anticipated this kind of growth. It's a wonderful headache to have—but it's a headache nonetheless."

A headache that could have—and should have—been anticipated. For some time, Roger Martin, dean of the Rotman School of Man-

agement at the University of Toronto and chair of the Institute for Competitiveness & Prosperity, has been warning that Canada is already lagging behind its major counterparts in terms of university participation. At a World Economic Forum in Switzerland this year, Martin presented the following findings: when it comes to entering B.A.s, Canadians are almost as poor with Americans, on a per capita basis. But past that level? Canadians earn fewer than half as many graduate degrees. In fact, Martin says that Canada's under-investment in higher education accounts for fully one-quarter of the



property gap with the United States. "Somehow, we decided to drastically underinvest versus the U.S.," says Martin. "Canadians tend to have a superior attitude about our education. We have to snap out of it and recognize we're behind. Post-secondary education is the highest paying investment there is."

The AUCC's O'Heron couldn't agree more. He points out that by limiting the opportunities for qualified students, Canada is compromising its own future prosperity. As it stands, the 15 per cent of Canadians over 18 who have university degrees contribute 35 per cent of the taxes in this country. "It's wrong, economically, socially and morally, to exclude large groups of students from the opportunity that education affords," says O'Heron. "How ridiculous is it that students with high averages are not even getting a sniff from universities? They're going back to high school to get higher grades so they can better their chances, taking teachers' time from students who need them. Now, how inefficient is that?"

If there is going to be reinvestment, where are the funds coming from? Increasingly, students are worried that funding will come directly out of their pockets, as tuition fees

in British Columbia, universities, have raised their fees for the typical undergraduate by 62 per cent since the province lifted its cap-year freeze in 2002. Last month, Alberta students—fearing their province might follow suit and lift the cap on tuition—held a province-wide day of protest. There is no doubt that universities, in the

'Canadians tend to have a superior attitude about our education.'

—ROGER MARTIN, DEAN OF U OF T'S ROTMAN SCHOOL OF MANAGEMENT

absence of any significant growth in opening funds, have become more dependent on tuition revenue. As Tim Thores, president of Dalhousie University in Halifax, says: "We're not counting on a huge infusion of government funds. That would require a major change in attitude."

Last month, AUCC made a push for that attitudinal change. In a presentation to the federal government, AUCC proposed the creation of a new transfer payment called the Higher Education Renewal Fund. Similar to the Health Care Renewal Fund, it would be used to reinvest in faculty, staff and technology—offering the same sort of significant support on the teaching side that has been given to research. The hope is that the reluctance of the two Martin-Rogers, with his prosperity agenda, plus the soon-to-be

prime minister, with his education agenda—might improve the odds of the fund becoming reality.

Just downing an Technicolor cap? Perhaps. But one way or another, push a button to come to shore—and the pressure for change just may come from those well-educated students of a previous generation, namely the baby-boom parents. This year at Guelph, 99 per cent of all first-year students were registered in their courses before the first day of classes—as is the most frequent users of the help line were parents. "Compared with five years ago," says Brady at Queen's, "there's a big difference in terms of parental involvement. There's a kind of prosperity attitude to the whole university experience."

And little wonder: the whole university experience—with all its richness, opportunity and promise—is what those baby boom parents remember in all its close, connection with youth, a sense of engagement. And whether you call it saving the person denying the future, it's what they all want for their own sons and daughters.

With Kathryn Sweet, Sandy Farris and David Wright

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RANKING CANADIAN UNIVERSITIES

ANN DOWSETT JOHNSTON and MARY DWYER explain the methodology behind the annual Maclean's survey

The Maclean's rankings offer students and parents a rare view into the ivory tower—and a unique opportunity to make informed decisions on the comparative strengths of public universities across Canada. On behalf of those readers, we ask a number of key questions related to the undergraduate experience: Where are the brightest first-year students? Where will you find the smallest classes? Where are you most likely to have access to tiered faculty? Where will you find the richest library resources? Which university has made the largest commitment to student services or scholarships and bursaries? And which university has the best reputation for quality and innovation?

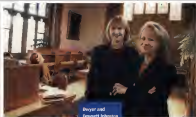
This year, we have added a measure of student retention, asking yet another important question: what percentage of first-year students return, either part time or full time, the following year? We believe the answer will be of interest to many parents and students.

How the ranking is done

In June, we circulated a 17-page questionnaire to the universities. At the same time, reputational surveys were sent out, and information on student and faculty awards was collected from the advertising agencies. Throughout the fall, editors spent several weeks collating and checking the data. Consulting statisticians from McGill's Statistics Lab performed the final calculations.

How we place the universities in peer groups

Using such factors as research funding, diversity of offerings and the range of Ph.D. programs to define peer groupings, Maclean's places each university in one of three categories. Primarily Undergraduate universities are largely focused on undergraduate education, with relatively few graduate programs. Those in the Comprehensive category have a significant amount of research activity and a wide range of programs at the undergraduate and graduate levels, including professional degrees. Medical-Dental universities offer a broad range of Ph.D. programs and research, as well as medical schools.



Dwyer and Dowsett Johnston ask the tough questions

In reporting on Maclean's, universities include all federated and affiliated institutions. The magazine does not rank schools with fewer than 1,000 full-time students or those with a strictly religious or specialized mission.

How we evaluate

The universities in the three categories are treated as separate but equal. Maclean's ranks the schools on a range of factors in six broad groupings (weightings are in parentheses). In total, Primarily Undergraduate universities are ranked on 22 performance measures, Comprehensive universities on 23 and Medical-Dental universities on 24—resulting in slightly different weightings for some performance measures.

This year, we made a slight adjustment to the weights. Since the new retention indicator is, in part, a measure of student satisfaction, we took two points from Alumni Support. The alumni indicator is designed to use surrogate for student satisfaction.

At the same time, we shifted a point from one of the entering grade indicators—the proportion of those with averages of 75 per cent or higher—and added it to the reputational survey. Why? Two reasons. First, given the rise in entering marks, we believe that a weighting of two per cent is appropriate. Second, we have been making a significant expansion to the list of those polled for the reputational survey. In 1992, Maclean's surveyed 2,000 indi-

viduals. Last year, the number was 7,528; this year, we sent surveys to 11,612. We believe the additional voices merit the adjustment.

STUDENT BODY

(22% to 23% of final score)

Students are ranked by the calibre of their peers. For that reason, Maclean's collects the incoming students' average high school grades (71%), and the proportion of those with averages of 75 per cent or higher (2%). This count includes only those students whose secondary school averages or CEGEP scores served as the basis of admission. With the exception of CEGEPs, however, no convenience formula is applied to incoming grade averages to adjust for provincial differences or varying admission policies.

As a measure of drawing power, we count the proportion of out-of-province students in the first-year undergraduate class (1.5%). The percentage of international students in the first-year undergraduate class (0.5%) is measured as well, acknowledging the benefits such diversity brings to the classroom. The percentage of international students at the graduate level (0%) is also measured for Comprehensive and Medical-Dental universities.

The student-body section also includes graduation rates (2%)—the percentage of full-time undergraduate students in their second year who go on to graduate from the institution within one year of the expected time

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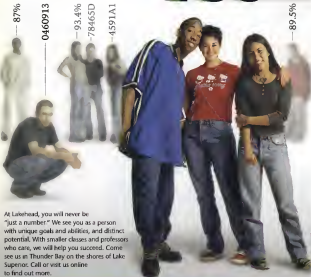


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period. In addition, Maclean's collects data on the success of the student body in winning national academic awards (3%) over the past five years.

This year, Maclean's introduced a new indicator measuring the percentage of first-year students who return in second year, either full-time or part-time (2%). While many factors can affect a student's choice not to return—personal considerations, or a decision to transfer to a professional program unavailable at their home university—student retention, on the whole, reflects a university's success in keeping its students on course.

CLASSES (17% to 18%)

The rankings embrace the entire distribution of class sizes at the first- and second-year levels (7.3% for Primarily Undergraduate universities, 7% for the other two categories), as well as the third- and fourth-year levels (7.3% for the Primarily Undergraduate category, 7% for the others). Maclean's measures the percentage of students in classes in each of the following class size ranges: 1 to 25, 26 to 30, 31 to 100, 101 to 250, 251 to 500, 501 and higher.

Maclean's also rates universities on the percentage of first-year classes taught by tenured and senior-track professors (2%), a measure of how much senior new students have to top faculty.

FACULTY (17%)

The rankings assess the calibre of faculty by calculating the percentage of those with Ph.D.s (3%), and the number who win national awards (2%). In addition, the magazine measures the success of eligible faculty in securing grants from each of the three major federal granting agencies: Social Sciences and Humanities Research Council of Canada, Natural Sciences and Engineering Research Council of Canada, and the Canadian Institutes of Health Research, as well as the

Canada Council. Maclean's takes into account both the number and dollar value awarded last year. Social sciences and humanities grants plus Canada Council grants (5.3%) and medical/science grants (5.5%) were tallied as separate indicators.

FINANCES (12%)

This section examines the amount of money available for current expenses per weighted full-time-equivalent student (3.3%), as well as the percentage of the budget spent on student services (4.3%) and scholarships and bursaries (4.3%). When presenting their general operating budget, institutions deducted any funds used to pay off debt.

LIBRARY (12%)

This section assesses the breadth and currency of the collection. Conversion received particular the number of volumes and volume equivalents per number of full-time equivalent students (4% for Primarily Undergraduate and Comprehensive, 3% for Medical/Doctoral). The total holdings measurement was used in the Medical/Doctoral category (1%), acknowledging the importance of extensive on-campus collections in those universities. As well, Maclean's measured the percentage of a university's operating budget that was allocated to library services (4%) and the percentage of the library budget spent on updating the collection (4%). In acknowledging a shift from the traditional library model to an access model, Maclean's captures spending on electronic resources in both the library expenses and acquisitions measurements.

REPUTATION (10%)

This section reflects a university's reputation with its own graduates, as well as within the community at large. For the reputational survey (16%), respondents rate the universities in three categories: Highest Quality Most

Innovative and Leaders of Tomorrow. Best Overall represents the sum of the scores.

When looking at student support, institutions received points for the number—rather than the value—of gifts to the university over the past five years (3%).

WEIGHTINGS

Maclean's ranks universities on up to 24 performance measures with varying weights assigned to each.

STUDENT BODY	22% to 23%
Average Incoming Grade	11%
Progression with 75% or Higher	2%
Student Retention	2%
Progression With Graduate	2%
Qtd of Province (1st Year)	1.9%
Informational (1st Year)	0.8%
Informational (Graduate)*	1%
Student Awards	3%

CLASSES	17% to 18%
Class Sizes (1st and 2nd Year Level)	7.18.15%
Class Sizes (3rd and 4th Year Level)	7 to 1.2%
Classes Taught by Tenured Faculty	2%

FACULTY	17%
Faculty with Ph.D.s	3%
Awards per Full-time Faculty	3%
Social Sciences and Humanities Grants	5.3%
Medical/Science Grants	5.5%

FINANCES	12%
Operating Budget	3.3%
Scholarships & Bursaries	4.3%
Student Services	4.3%

LIBRARY	12%
Total Library Holdings*	7%
Holdings per Student	2 to 0.4%
Acquisitions	4%
Expenditures	4%

REPUTATION	10%
Alumni Support	2%
Reputational Survey	16%

*Comprehensive and Medical/Doctoral categories only
*National Student Awards only

REPUTATIONAL RESPONSE RATE

THIS YEAR, Maclean's expanded its survey, soliciting the opinion of 11,612 individuals across the country. They included high-school principals and guidance counsellors from every province and territory, university officials at each ranked institution, the heads of a wide variety of national and regional organizations, plus CEOs and recruiters at corporations large and small. The reputational survey is both regional and national, dividing the country into four key areas: the western provinces, Ontario, Quebec and the Atlantic provinces. All respondents completed a national survey, university officials, principals and guidance counsellors also completed regional ones.

GROUP	RESPONSE RATE
University Officials	66.6%
High School Principals	53.9%
Guidance Counsellors	16.3%
CEOs	14%
Corporate Recruiters	18.3%
Heads of Organizations	11.4%
TOTAL	33.2%

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PRIMARILY UNDERGRADUATE WINNER | ST. FRANCIS XAVIER

From unassuming origins dating back a century and a half, this small university in Antigonish, N.S., has developed into a magnet for those seeking a rich experience, writes JOHN DEMONT

PRIMARILY UNDERGRADUATE

The Atlantic's ranking takes a measure of the undergraduate experience, comparing universities in three peer groups. Those in the Primarily Undergraduate category are largely focused on undergraduate education, with relatively few graduate programs.

YOU DON'T MAKE IT to the ripe old age of 150 like St. Francis Xavier University without learning a thing or two about tradition. Consider the \$85 million campus renovation plan well underway at the small Antigonish, N.S., school. It includes some pretty state-of-the-art stuff for such an old-of-the-way Maritime institution: the \$20-million Charles V. Keating Millennium Centre, with its conference and athletic facilities; the Gerald Schwartz School of Business and Information Systems, founded

with a multi-million dollar donation from the Orsco Camp chairman, the \$23.5-million Physical Sciences Complex, which will be home to the university's physics, chemistry, engineering and earth

sciences facilities, due to open next year. Anywhere else, those facilities might be housed in towers of glass and steel. The additions, however, worked with discreet brick and stone-cladding structures similar to the ones that have been standing forever on the school's leafy, eight-acre main campus. "We're looking to fit in here," says St. FX president Sean Riley on what could be the university's unofficial motto, "but we have no intention of abandoning our roots."

Given St. Francis Xavier's venerable history, that's understandable. The university was started, after all, by the local Roman Catholic diocese and sustained by the donations of fishermen, farmers and miners. Today, it's

It may have been competing on 50th-million campuses for a while.

with the kind of place where the carpenter's kid from nearby Cape Breton prepares to face the world. But St. FX—Canada's top Primarily Undergraduate university for the second year in a row—is also recognized for its academic success. The country who was a rich academic experience in a small-town setting. More than one-third of the first-year students are from another region. This fall, these were some bright kids when the university boosted its first-year intake by 150 students. More than 100 fresh ended up spending the first few weeks of the term sleeping in residence study rooms and lounges, but it does say something about the popularity of a place that's two hours from the amenities of a major city: this year's freshmen arrived with an average grade of 85.2 per cent.

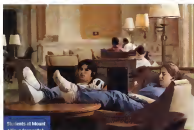
As well, St. FX enjoys the best alumni support in its group. They can count on a long list of illustrious grads—from Brian Mulroney



to members of the Ruston Family—to leg the school's prices. The university's endow ment now sits at more than \$45 million, not to mention its for a school of 4,200 full-time students. Meanwhile, the university's reputation as a leader in service learning—which attracted a \$1 million grant from the J. W. McConnell Family Foundation in 1999—has meant that, in a growing number of courses, students have the option of launching a community project tied to their curriculum or working in a developing country.

Opportunities like this aren't theory that that makes St. FX special. It's not unusual for students to get a strong introduction to areas of research. "Where else would I get these kinds of opportunities at a place this size?" asks Fraser Turner, 21, a fourth-year physics student from Pasadena, Md., who is conducting atomic-molecular research as part of his coursework this year.

Mostly, though, students talk about the intangible "FX experience," which in many ways hasn't changed for generations. With more than 40 per cent of the student body living on campus, campus life rocks. "I know



Students at Mount Allison University and at Acadia's new Irving Centre

it's a cheat, but you do feel like you're part of this incredibly close-knit family," says Meredith MacDonald, 18, a first-year arts student from Calgary.

In her case, that's not too surprising: she grew up hearing about the place from her alumni parents and grandparents. Throughout the year, she goes about the school spirit at football games, the great residence parties and friendly, walkable campus, they know precisely what she's talking about.

Obviously, some things have changed since they left: the university now offers a growing list of interdisciplinary programs which bring together elements from the business, arts and science faculties. It has also expanded the on-campus possibilities for business administration, information systems and computer science students. The world-renowned Coady International Institute, soon to move to renovated quarters, encompasses both local and international outreach activities on campus.

REPUTATIONAL WINNERS

Each year's survey highlights the university officials, heads of organizations, CEOs and executives at corporations across the country.

HIGHEST QUALITY

1. Mount Allison
2. Acadia
3. St. Francis Xavier
4. Wilfrid Laurier
5. Ryerson

LEADERS OF TOMORROW

1. Acadia
2. Ryerson
3. St. Francis Xavier
4. Mount Allison
5. Lethbridge

MOST INNOVATIVE

1. Acadia
2. Mount Allison
3. Ryerson
4. St. Francis Xavier
5. Wilfrid Laurier

BEST OVERALL

1. Acadia
2. Mount Allison
3. St. Francis Xavier
4. Wilfrid Laurier
5. Ryerson

But, says Riley, the 150-year-old St. FX knows enough not to go running off in all directions. "We stick to the fundamentals," he says. "That's our niche." If St. FX's success in any indication, it's one worth holding on to.

PRIMARILY UNDERGRADUATE

This category's ranking takes a look at the undergraduate experience, comparing universities in three peer groupings. This is the primarily undergraduate category, largely focused on undergraduate education, with relatively few graduate programs.

OVERALL RANKING	STUDENT BODY							CLASSES							ACADEMY							FINANCES							LIBRARY				REPUTATION	
	LAST YEAR	AVERAGE OFFERING GRADE	PROPORTION WITH TOP 20% IN DETENTION	STUDENT WHO GRADUATE	OUT OF PROVINCE (LAST YEAR)	INTERNATIONAL (LAST YEAR)	STUDENT AID/AVG	CLASS SIZE: 1ST YEAR	CLASS SIZE: 4TH YEAR	CLASS SIZE: 4TH YEAR	CLASS SIZE: 4TH YEAR	PLAYERS/TEAM	ATHLETIC: 1ST YEAR	ATHLETIC: 4TH YEAR	ATHLETIC: 4TH YEAR	ATHLETIC: 4TH YEAR	ATHLETIC: 4TH YEAR	OPERATING BUDGET	STUDENT AID: PERCENTAGE OF BUDGET	STUDENT AID: PERCENTAGE OF BUDGET	STUDENT AID: PERCENTAGE OF BUDGET	STUDENT AID: PERCENTAGE OF BUDGET	STUDENT AID: PERCENTAGE OF BUDGET	STUDENT AID: PERCENTAGE OF BUDGET	STUDENT AID: PERCENTAGE OF BUDGET	STUDENT AID: PERCENTAGE OF BUDGET	STUDENT AID: PERCENTAGE OF BUDGET	STUDENT AID: PERCENTAGE OF BUDGET	STUDENT AID: PERCENTAGE OF BUDGET	STUDENT AID: PERCENTAGE OF BUDGET				
1 St. Francis Xavier	1	2	4	10	3	4	15*	5	11	9	7	11	15*	1	2	8	12	20	8*	4	14*	3	8	1	3	1	3	1	3	1	3			
2 Mount Allison	2	1	1	12	13*	1	6	1	15	8	5	7	5	15	4	1	14	17	2	9	4	6	2	2	2	2	2	2	2	2	2			
3 Acadia	3	4	5	8	6	3	1	2*	8*	10	14	4	7	13	12	11	16	15	3	7	13	12	1	1	1	1	1	1	1	1	1			
4 Bishop's	6*	6	3	13	12	2	2	12*	1	4	20	16	15*	20	18	3	7	1	7	15	1	4	10	1	1	1	1	1	1	1	1			
5 Trent	6*	10	10	1	7	13	7	7	5	6	6	5	2	7	1	12	1	14	14	23	16	5	5	5	5	5	5	5	5	5	5			
6 Wilfrid Laurier	5	5	2	7	5	20	19	15*	26	19	21	3*	8	4	6	20	2	5	17	12	8	16	4	4	4	4	4	4	4	4	4			
7 UNBC	8	9	7	17	15	14	17	6	16	12*	15	6	15*	2	14	2	18	7	10	2	2	N/A	14	1	1	1	1	1	1	1	1			
7 St. Thomas	16	3	6	13	21	5	25*	21	8*	17	18	2*	5	11	N/A	17	5	4	4	19	14*	7	11	1	1	1	1	1	1	1	1			
9 UPEL	8	10	13	14	15	5	11	4	13	15	2	12*	3	3	10	4	13	20	5	10	17	11	12	1	1	1	1	1	1	1	1			
10 Winnipeg	4	7	8	15	11	17	13	2*	6	12*	16	14	10*	10	15	16	17	3	20	8	3	2	15	1	1	1	1	1	1	1	1			
11 Saint Mary's	13	16	10	4	2	6	3	11	15	11	3	1	15*	9	8	14	11	11	18	20	12	1	9	1	1	1	1	1	1	1	1			
12 Brock	14	11	12	2	9	21	9	14	21	26	10	8	16	6	5	21	8	6	19	6	7	14	7	1	1	1	1	1	1	1	1			
12 Lethbridge	12	15	14	16	10	7	8	12	16	16	17	15	4	16	2	10	29	2	8*	17	5	17	8	1	1	1	1	1	1	1	1			
14 Mount Saint Vincent	12	9	11	17*	16	10	4	18	3	1	10	10	15*	12	20	15	15	21	18	3	19	5	13	1	1	1	1	1	1	1	1			
15 Moncton	15	17	14	11	10	12	14	9*	4	6*	13	19	14	14	13	7	10	8	6	5	6	5	16	1	1	1	1	1	1	1	1			
16 Brandon	20	12	15	21	13*	9	18	15*	7	3	4	17	12	5	17	6	29	15	1	16	11	20	20	1	1	1	1	1	1	1	1			
17 Lakehead	17	21	21	6	4	16	26	9*	18	15	8	9	6	5	9	13	3	16	12	1	9	13	17	1	1	1	1	1	1	1	1			
18 Ryerson	16	12*	9	5	5	15	16	10*	17	23	11	20	13	17	7	19	9	9	21	13	21	15	5	1	1	1	1	1	1	1	1			
19 Laurentian	25	29	29	9	17	18	12	8	14	12*	12	12*	9	19	11	5	4	18	21	11	16	19	18	1	1	1	1	1	1	1	1			
20 Niagara	19	13	17	3	1	13	21	17	12	8*	9	18	15*	12	16	8	6	12	16	14	18	16	19	1	1	1	1	1	1	1	1			
21 Cape Breton (NSCC)	21	18*	19	20	20	11	5	10*	2	2	1	13	13*	18	19	16	21	12	25	15	20	30	21	1	1	1	1	1	1	1	1			

Lateral thinking

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Dr. Carl Suterlin
University of Saskatchewan graduate
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Cover | UNIVERSITY RANKINGS | Comprehensives



COMPREHENSIVE WINNER | UNIVERSITY OF GUELPH

With a proven commitment to engage undergrads in research, Guelph is taking innovative new steps to enhance the student experience in the classroom and beyond, writes CHARLIE GILLIS

COMPREHENSIVE

The *Maclean's* ranking takes a measure of the undergraduate experience, comparing universities in three peer groupings. Those in the Comprehensive category have a significant amount of research activity and a wide range of programs at the undergraduate and graduate levels, including professional degrees.

BALD, BAREFOOT SEXY. They're not the kind of words you associate with academic administrators. But when University of Guelph students were asked recently for a one-word description of their new president, Alvin K. Semmerie, the often subjective posed in "In undergrads, Semmerie is a show-stopping lecturer, renowned for addressing his classes unshod. "I just don't like shoes," or writing on blackboards with both hands simultaneously. But there's no method

to his madness—a way of helping students that goes to the heart of Guelph's philosophy. "We care about the learner, and the outcome of the learning process," says Semmerie, a 58-year-old professor of biomedical science, who continues to teach despite his administrative duties. "Many faculty here are just as strong proponents of that ethos as I am."

Every post-secondary institution will tell you it cares about its students. But Guelph goes far to the extreme—and few take the mission as seriously as Semmerie. In his previous roles in Guelph's provost and vice-president offices, he helped establish the university's image as a place where student comfort and innovation intersect. There is every sign he will continue the tradition, making sure the Comprehensive category for the second year in a row, the university has devoted a greater proportion of its budget

Semmerie is dedicated to student learning projects.

to student services than any of its peers. The result is a decidedly fresh spin on university life. Students living in residence are invited to live in "chalets"—groups of floors or entire houses dedicated to, say, environmental science or the humanities. Meanwhile, students with first-year jitters or other issues can get coordinated help from faculty, residence staff and resident advisers through a newly expanded Student Life and Career Services Centre. Even between-class breaks look only on a recent fall day, a couple of dozen students could be found hilling around The Hubbing, a newly opened on-campus house run jointly by the administration and student government. During an early class long with notes and handouts and novels, they didn't quite look busy. But they didn't look bored, by either.

There's more, however, to Guelph's success than creature comforts and trivia. With



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Hydroponic campus experiments at Waterloo and Victoria bring

in agriculture and veterinary medicine. Waterloo's 412-hectare main campus will now find a chance of biotechnical, food safety, agricultural and biomedical research facilities with few rivals in Canada-plus a lush new science building under construction. One research team is investigating the brain science behind drug addiction. Another has developed a no-

to colleges and a vast array of niche programs, the university is renowned for redefining academic disciplines, with an eye to keeping things practical. When Tina Coudrie, an horticulturalist from Huntsville, Ont., went looking for a university last winter, Guelph's unique soundings grabbed her eye. "I had heard of environmental, biological computer systems," she recalls. "Water resource

engineering was what she'd always been interested in, and they had that too. So I said, 'I thought coming into university would be a huge shock. But it's been the opposite. The profs are so approachable and there are many support groups—if you need help, it's there.'"

With roughly \$166 million in research money flowing in to the university annually, Guelph has been able to build on its history

but that learns from experience, which the team hopes to apply to preshield-lab technology. A third is examining ways to replace petroleum products with corn, soybean or canola oil.

For undergrads, this means research opportunities for mid-level institutions can match "how hard a lot of talk about the link between teaching and research," says Margaret Mancuso, Guelph's acting provost



and vice president, academic. "But it's not often you see an 'it's all' manifesto of it." Amy Metcalfe, a fourth-year molecular biology student, earned laboratory experience before she headed off to grad school. This fall, she's helping investigate the role of alpha carbon proteins in colorectal cancer as part of an eight-month project. "There are many opportunities here," says the 23-year-old from Berlin, Ont. "You can pretty much get into whatever area you want." You don't even have to work on your field. David Hornsby is a 23-year-old political science student. But since he started at the university five years ago, he has been helping test a specific hormone on the reproductive systems of animals. Academically, it's meant a few elective credits. But, he says, "the experience has been invaluable."

This winter, Mancuso, Summerlee and other senior administrators will be teaching a new series of first-year seminars that

challenge students to investigate and devise solutions to real-life problems. Summerlee's will focus on inequality and gender, with lots of hot-button scenarios. One involves a male couple who arrive at a fertility clinic claiming that one of the men is pregnant. Is this possible? In what country would such an implantation take place? What are the political concerns it raises? What kind of action would you take? "It'll be teaching the course to business students," says Summerlee, with a slight smile. "So this should bend their minds a bit."

The idea is classic Guelph: set up scenarios where students are forced to think outside their academic "silos," and watch the spectacular results flow in. It's the kind of thinking that makes Guelph graduates among the most fiercely proud in Canada, and sometimes to attract top-flight academics. Kees Dean, for one, left his previous posting as a dean of research at Britain's University of

REPUTATIONAL WINNERS

Includes many of the top schools in the world, including public and private, research and teaching, and liberal arts, and includes all of the top 100 schools in the world.

HIGHEST QUALITY

1. Waterloo
2. Guelph
3. Simon Fraser
4. Victoria
5. Memorial

BEST INNOVATIVE

1. Waterloo
2. Guelph
3. Simon Fraser
4. Victoria
5. Memorial

BEST OVERALL

1. Waterloo
2. Guelph
3. Simon Fraser
4. Victoria
5. Memorial

Manchester to become Guelph's new dean of biological science. "There's an ability here to go from molecules to people to populations," Enns says. "That's what I think a lot of opportunities are going to be in the future."

Then of all, adds Enns, are the graduates. Guelph produces socially engaged thinkers who are prepared to address issues that confront them in the real world. So make what you want of the quality even running the show. With no shoes on his feet—and a popular appeal that would make most politicians jealous—Summerlee may not fit the mould of a traditional academic administrator. But for those of us who share with him a head at a time, it's hard to argue with success. ■

COMPREHENSIVE

The Maclean's ranking takes a snapshot of the undergraduate experience, comparing universities in three peer groups. Those at the top of the list are the best in their category, based on a significant amount of research activity and a wide range of programs at the undergraduate and graduate levels, including professional degrees.

OVERALL RANKING COMPREHENSIVE UNIVERSITIES	STUDENT BODY				CLASSES				CULTURE				FINANCES				LIBRARY				REPUTATION				
	LAST YEAR	APPROX. STUDENT RANK	PROPORTION INTERNATIONAL STUDENTS	STUDENT RANK	PROPORTION WHO STUDY ABROAD	OUT OF PROVINCE	OUT OF COUNTRY	INTERNATIONAL STUDENTS	INTERNATIONAL STUDENTS	STUDENT RANK	CLASS SIZE: F2F AND 2ND YEAR		CLASS SIZE: ONLINE AND 2ND YEAR		ANNUAL PER STUDENT	SOCIAL SECURITY	MEDICAL/SCIENCE	OPERATING BUDGET	SCHOLARSHIPS & BURSARIES (PER STUDENT)	STUDENT SERVICES (PER STUDENT)	HOLDS PER STUDENT	ACQUISITION	EXPENSES	RESEARCH SUPPORT	REPUTATIONAL SURVEY
											LEVEL	LEVEL	PER STUDENT	PER STUDENT											
1 Guelph	3	5	1	2	1	9	11	6	2*	6	4	2	1	5	7	3	4	6	3	4	4	3	2	2	2
2 Waterloo	2	1*	4	3	2	6	7	2	1	5	5*	1	2	1	4	4*	7	3	7	3	7	9	1	1	1
3 Victoria	4	1*	2	7	5	4	6	7	3	7	6	7	6	3	3	1	3	5	6	3	5	10	4	4	4
4 Simon Fraser	2	6	3	6	3	7	2	11	2*	9	9*	8	5	2	1	2	1	9	10	11	2	7	4	3	3
5 Memorial	5	0	8	8	7*	5	10	8	18	1	2	6	9	5*	8	11	2	8	4	1	8	1	5	5	5
6 Regina	6*	3	6	11	11	8	9	5	8	2	1	10	11	8*	9	10	5	4	8	6	6	6	11	10	10
7 Concordia	10	6	5	4	9	1	3	3	8	2	6	9	8	11	2	7	11	11	11	10	5	11	3	8	8
8 New Brunswick	8	8	9	9	7	2	5	4	6	4	3	10	7	10	9	8	10	9	2	13	2	8	7	7	7
9 York	6	10	10	3	4	10	8	10	7	11	6	4	4	5	4*	10	2	2	9	9	10	9	6	6	6
10 Carleton	5	7	7	5	10	3	4	9	4	8	10	11	7	8	4	6	9	3	3	7	10	3	6	9	9
11 Windsor	11	11	11	10	6	11	1	1	11	10	7	5	3	6	11	8	4	7	5	5	2	4	7	11	11

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Cover | UNIVERSITY RANKINGS | Medical Doctoral



MEDICAL DOCTORAL WINNER | UNIVERSITY OF TORONTO

Building on 150 years of fostering excellence, Canada's premier research powerhouse continues to reshape itself as it makes way for a new generation of undergraduates, writes VICTOR OWYER

MEDICAL DOCTORAL

The *Maclean's* ranking takes a measure of the undergraduate experience, comparing universities in three peer groupings. Those in the Medical Doctoral category have a broad range of PhD programs and research, as well as medical schools.

IT'S BEEN ONLY a few weeks since Isabelle Apertgay-Bleau started working toward her degree in international relations and political science. But already she feels "in a whole new world, and right at home" in the University of Toronto. Enrolled in the university's historic Victoria College, the 19-year-old has joined the photography club, been working out at the Hunt House gym and has run for a spot on the student council. Determined to make university as affordable as possible, she decided not to join the one-third of U of T freshmen who live in residence,

opting instead to live at home. And so she hooked up with the Victoria College Off-Campus Association, with whom she's gone out to movie nights and joined excursions to downtown comedy clubs, she's even taken an overnight trip to U of T's Hunt House Farm in the Caledon Hills, northwest of the city.

But best of all, she says, has been her experience of settling into the innovative new *Vit One* program, which offers 100-top students the chance to study primarily in small seminar settings. Her favourite class, says Apertgay-Bleau, is foreign relations, where the professor, David Wright, is himself a U of T freshman of sorts. "I expected to get good grades here," says Apertgay-Bleau. "I didn't expect to meet every week with the man who was Canada's outgoing ambassador to NATO. This sense of opportunity is what the University of Toronto is all about."

Apertgay-Bleau has located the course, went to class and did well.

One of the world's pre-eminent research institutions, Canada's top-ranked Medical Doctoral university is a place where students can find opportunities in spades.

The figures alone tell an impressive story: roughly 3,000 faculty, more than 300 undergraduate programs, 12 libraries, seven colleges, each with its own distinctive programs, social clubs and residences—and an endowment, awarded among Canadian universities, of \$1.4 billion. Made possible in large part by Toronto's famously loyal donors, that endowment, says president Robert Bortolucci, has helped the university to award a remarkable \$48 million in undergraduate student aid this year, more than three-quarters of a billion on need. At the same time, it has allowed Bortolucci to bring 110 new tenure-track professors to campus, where they have joined such names as philosopher Mark Kingwell, demographer David



Foot and Nobel Prize-winning chemist John Polanyi: "If anything, the divorce cohort has made us focus, rethink and re-energize," says Regenstein of this year's 11,800-strong freshman class, an increase of 2,200 from one year ago. "There are exciting times for the U of T."

WHICH IS NOT TO SAY that all the news is good. Ferguson has said that he is determined to improve the traders' facility ratio, now sitting at 30-to-one. Apeyegunye-Bello, for instance, says each month 400 Nigerian traders



Science library, the largest of its kind in Canada. This coming spring, meanwhile, Woodsworth College is scheduled to open a new 375-bed residence.

Even more ambitious are the developments afoot at U of T's two subsidiary campuses, where the university has funnelled the vast majority of the double-digit increases. Mississauga has added 200 new dorm spaces this fall, and is preparing for the opening of a new \$35-million head-quarters for its program in communication, culture and information technology in



eastern Toronto, the Scarborough campus has added 232 outside new spaces, and

There have been, though, a few humps along the way. Most notably, Scarborough's new \$23-million Academic Resource Center wasn't fully up and running on schedule, leaving students without access to a campus library until well past their first midterms. "I know the challenges have been huge," says Scarborough's student union president Dan Burdick. "But this [is] all been smooth/Scarboro like a good road."

As it tries to meet the demands of export:

and change it's worth noting that the University of Toronto has 150 years' experience in doing just that—and fostering excellence along the way. This is the place where the afternoon can drift away in the Art Centre where the walls are hung with works by A.Y. Jackson, Arthur Lismer and Lawren Harris, all of whose names passed over for the Flatt House Prize. It's the place where the Thomas Fisher Rare Book Library houses the papers of Alexandra Margaret Atwood and the Nobel Prize model of university science Sir Frederick Banting. And it's the place where students like Argan Brindley can find a place to call home in the heart of an immense world-class centre of learning. To quote, "This is the best of all worlds," says Argan, "a new kind of version of the Canadian dream."

REPUTATIONAL WINNERS

data, via survey of high school principals and guidance counsellors, university officials, heads of organisations, CEOs and recruiters at corporations across the country.

HIGHEST QUALITY	LEADERS OF TOMORROW
1. Queen's	1. Toronto
2. McGill	2. Alberta
3. Toronto	3. Queen's
4. UBC	4. McGill
5. McMaster	5. UWP

MOST	BEST
REWORKTIME	OVERALL
1. Toronto	1. Toronto
2. McMaster	2. Queen's
3. McGill	3. McGill
4. Queen's	4. Alberta
5. UBC	5. UBC

Competition and a first-year science student living in Falconer House, a two-dorm residence within Whitney Hall at University College. "I live with a great, supportive roommate, where everyone knows everyone else," says Hildebrand, who likes the beauty of the dorm, he adds, he is often reminded that he also lives in a place where the world comes to life. "In the space of one afternoon this fall, three Nobel Prize winners were speaking on campus. How do you improve on that?"

MEDICAL DOCTORAL

The MacLachlan index takes a measure of the underproduct, experience, comparing underoffices to three peer groupings. There is the MacLachlan Declared category have a broad range of 0th 0, experience and research, as well as medical schools.

DEVELOPING BANKING MEDICAL DOCTORAL UNIVERSITIES	STUDENT BODY										CLASSES		FACULTY				FINANCES				LIBRARY				REPUTATION																																																																																																																																																																																				
	LAST YEAR	AVERAGE ENROLLMENT	PROPORTION WOMEN/DOCTORS	GRADUATE MEDICINE	PROPORTION WOMEN/GRADUATE	PROPORTION OF OFFICE PRACTICE	INTERNATIONAL STUDENTS	OPERATIONAL GRADUATES	STUDENT ACADEMICS	CLINICAL RESEARCH AND/OR CLINICAL LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL 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LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/TEACHING/PRODUCTION LEVEL	CLINICAL RESEARCH/

Great Students

International rankings for standardized tests of 15-year olds*

READING

1. Alberta

- Finland
- British Columbia
- Quebec
- Canada
- Ontario
- Manitoba (tied)
- Saskatchewan (tied)
- New Zealand (tied)
- Australia
- Ireland
- Korea
- United Kingdom
- Japan

MATHEMATICS

- Japan
- Quebec

3. Alberta (tied)

- Korea (tied)
- New Zealand
- Finland
- British Columbia
- Australia (tied)
- Manitoba (tied)
- Canada (tied)
- Switzerland (tied)
- United Kingdom (tied)
- Saskatchewan
- Ontario

SCIENCE

- Korea
- Japan

3. Alberta

- Quebec
- Ireland
- British Columbia
- United Kingdom
- Canada
- New Zealand (tied)
- Australia (tied)
- Manitoba
- Ontario (tied)
- Saskatchewan (tied)
- Austria

Great Universities



UNIVERSITY OF
ALBERTA

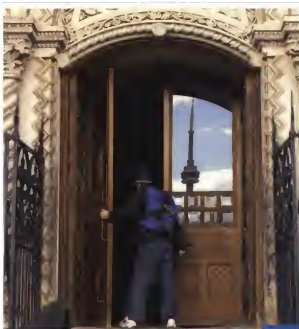


UNIVERSITY OF
CALGARY

Alberta
LEARNING

* see OECD (Organisation for Economic Co-operation and Development) PISA Programme for International Student Assessment report card for May 2006 survey

Cover | UNIVERSITY RANKINGS



THE RANKINGS | WHAT EVERY STUDENT NEEDS TO KNOW

Where are the smart students, the small classes, the rich library resources? Which university has the strongest reputation, the largest out-of-province draw? Maclean's presents a detailed guide to all the facts and figures behind its exclusive rankings of Canadian universities.

Looking for
quality in
the learning
environment

Student Body 58 | Classes 14 | Faculty 68 | Finances 70 | Library 72 | Reputation 76 | Value Added 76 | Diversity 79 | Financial Planning 80

UNIVERSITY OF ALBERTA

MAY 2006 | NOVEMBER 17, 2001 | 17



Top students are drawn to McGill University in Montreal.

STUDENT BODY

The quality and dedication of students has an enormous impact on the learning environment, Maclean's takes two measures of entering grades, and calculates the proportion of first-year students who return for a second year—full or part time. Other measures include: the proportion of students graduating within a reasonable time, the success of the student body at winning national awards, and the university's national and international drawing power.

AVERAGE ENTERING GRADE

Students are enrolled by the calibre of their peers. Here are the average first-year grades of first-year students entering from high school or Quebec's CEGEP system.

	2011-12
1 McGill	80%
2 Queen's	87.5%
3 Montreal	87.6%
4 UBC	81.3%
5 Sherbrooke	86.5%
*6 Saskatchewan	86.1%
*8 BCcampus	86.1%
*9 Laval	86%
*9 Windsor	86%
18 Mount Allison	85.5%
*12 Western	85.4%
*12 Waterloo	85.4%
13 Alberta	84.5%
14 Saskatchewan	84.2%
15 Regina	83.6%
*15 St. Francis Xavier	83.4%
*16 Nelson Fraser	83.0%
18 Guelph	83.2%
19 St. Thomas	83%
20 Ottawa	82.7%
21 Acadia	82.6%
22 Calgary	82.5%
*22 Wilfrid Laurier	82.5%
24 Manitoba	82.0%
25 McMaster	81.2%
26 Concordia	81.2%
27 Wilfrid Laurier	81.1%
28 Wilfrid Laurier	80.9%
29 Carleton	80.7%
30 Mount Saint Vincent	80.6%
32 New Brunswick	80.5%
32 UNBC	80.5%
34 UPEL	80.2%
34 Memorial	80.1%
35 Brock	80%
36 Brandon	79.7%
*37 Cape Breton (CBBCE)	79.6%
*37 Bryn Mawr	79.6%
38 Lethbridge	79.4%
*39 York	79.3%
40 Saint Mary's	79.0%
42 Macdonald	78.8%
43 York	78.4%
44 Trent	77.5%
45 Laurier	77%
46 Lakehead	76.8%
47 Windsor	76%

*Values are at least 100 students.
Not shown are the following: 100 students or more.

PROPORTION WITH 75% OR HIGHER

Maclean's calculates the percentage of first-year students entering from high school or CEGEP with averages of 75 per cent or higher.

	2011-12
1 McGill	50.8%
2 Queen's	50.5%
3 Queen's	50.4%
4 Guelph	50.8%
5 UBC	50.6%
6 Victoria	50.6%
7 Toronto	50.6%
8 Toronto	50.6%
9 St. Lawrence	50.6%
10 Laval	50.6%
11 Simon Fraser	50.6%
12 Mount Allison	50.6%
13 Waterloo	50.6%
14 Saskatchewan	50.6%
15 Regina	50.6%
16 Alberta	50.6%
17 McMaster	50.6%
18 Calgary	50.6%
19 Ottawa	50.6%
20 Wilfrid Laurier	50.6%
21 Acadia	50.6%
22 Calgary	50.6%
23 St. Francis Xavier	50.6%
24 Regina	50.6%
25 McMaster	50.6%
26 St. Thomas	50.6%
27 Waterloo	50.6%
28 Carleton	50.6%
29 UBC	50.6%
30 Wilfrid Laurier	50.6%
31 Ryerson	50.6%
32 Memorial	50.6%
33 Saint Mary's	50.6%
34 New Brunswick	50.6%
35 Brock	50.6%
36 Brandon	50.6%
37 UPEL	50.6%
38 Lethbridge	50.6%
39 Waterloo	50.6%
40 Cape Breton (CBBCE)	50.6%
41 York	50.6%
42 Ryerson	50.6%
43 Memorial	50.6%
44 Trent	50.6%
45 Laurier	50.6%
46 Lakehead	50.6%
47 Windsor	50.6%

GRADE DISTRIBUTION

While the Maclean's ranking takes account of the average entering grade of first-year students entering from high school or CEGEP, the average tells only part of the story. What percentage of those students entered with grades within each of the following ranges?

	100-100%	90-99%	80-89%	70-79%	60-69%	50-59%	40-49%	30-39%	20-29%	10-19%	0-9%
Acadia	9.3	3.3	13.3	18.3	25.3	24.3	14.3	4.3	0	0	0
Alberta	8.1	3.6	8.1	18.4	26.4	25.7	15.3	8.3	0	0	0
Bishop's	0	0	0	0	0	0	0	0	0	0	0
Brunel	0	0	0	0	0	0	0	0	0	0	0
UBC	0	0	0	0	0	0	0	0	0	0	0
Brack	0	0	0	0	0	0	0	0	0	0	0
Calgary	0	0	0	0	0	0	0	0	0	0	0
Cape Breton (CBBCE)	7.5	11.2	12.3	15.1	15.6	19.9	12.5	2.3	0	0	0
Carleton	0	0	0	0	0	0	0	0	0	0	0
Concordia	1	3.6	9.8	18.5	24.1	24.6	18.3	18	1.3	0	0
Edmonton	0	0	0	0	0	0	0	0	0	0	0
Lethbridge	0	0	0	0	0	0	0	0	0	0	0
Laurier	0	0	0	0	0	0	0	0	0	0	0
Laval	0	0	0	0	0	0	0	0	0	0	0
Lethbridge	1.9	8.8	19.6	22.6	22.1	22.9	6.8	2	0	0	0
Manitoba	1.8	6	11.2	22.2	28.3	21.6	15.6	6.2	0	0	0
McGill	0	0	0	0	0	0	0	0	0	0	0
McMaster	0	0	0	0	0	0	0	0	0	0	0
Memorial	0	0	0	0	0	0	0	0	0	0	0
Moncton	5.3	11.2	19.2	21.2	24.4	25.9	1.2	1	0	0	0
Montréal	0	0	0	0	0	0	0	0	0	0	0
Mount Allison	0	0	0	0	0	0	0	0	0	0	0
Mount Saint Vincent	1.2	0	0	0	0	0	0	0	0	0	0
New Brunswick	6.8	9.8	19	21.1	23.7	26.4	19.3	2	0	0	0
Nipissing	0	0	0	0	0	0	0	0	0	0	0
UNBC	0	0	0	0	0	0	0	0	0	0	0
Ottawa	0	0	0	0	0	0	0	0	0	0	0
UPPE	0	0	0	0	0	0	0	0	0	0	0
Queen's	0	0	0	0	0	0	0	0	0	0	0
Ryerson	0	0	0	0	0	0	0	0	0	0	0
Ryerson	0	0	0	0	0	0	0	0	0	0	0
St. Francis Xavier	6.2	7.2	12.5	18.6	24.6	22.5	18.3	4.7	0	0	0
Saint Mary's	6.8	16	14.8	14.8	12.8	12.5	4.4	6.4	0	0	0
St. Thomas	6.6	4.1	17.8	13.6	13.6	15.2	14.1	6.9	0	0	0
Saskatchewan	0	0	0	0	0	0	0	0	0	0	0
Sherbrooke	0	0	0	0	0	0	0	0	0	0	0
Simon Fraser	0	0	0	0	0	0	0	0	0	0	0
Toronto	0	0	0	0	0	0	0	0	0	0	0
Trent	6.7	10.6	21.2	25.6	24.7	24.4	6.8	6.4	0	0	0
Victoria	0	0	0	0	0	0	0	0	0	0	0
Waterloo	0	0	0	0	0	0	0	0	0	0	0
Wilfrid Laurier	4.4	7	16.4	18.9	13	24.6	6.4	6.2	0	0	0
Windsor	5.3	19.6	25.4	23.9	17.2	1.4	6.2	6.6	0	0	0
Windsor	3.3	7.2	13.3	16.2	24.6	23.6	11.7	3.6	0	0	0
York	0	0	0	0	0	0	0	0	0	0	0

For the methodology, the reader can visit our website at www.macleans.ca.

STUDENT RETENTION

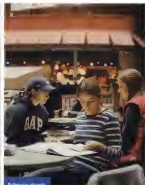
Maclean's calculates the percentage of first-year students who return or succeed year, either full time or part time.

	PER CENT
1. Uxal	81.3
2. Uxal	81.3
3. Queen's	84.5
4. Western	82.3
5. Waterloo	83.8
6. McGill	83.8
7. Trent	83.8
8. Brock	83.8
9. York	83.8
10. York	83.8
11. Saint Mary's	83.2
12. UBC	82.2
13. Oxyen	80
14. York	80.9
15. Lakerhead	80.7
16. McMaster	80.6
17. Wilfrid Laurier	80.6
18. Oxyen	80.6
19. Carleton	80.6
20. Acadia	80.6
21. Lakerhead	80.6
22. York	80.6
23. York	80.6
24. Lakerhead	80.6
25. Brock	80.6
26. Victoria	80.6
27. Dalhousie	80.6
28. Alberta	80.6
29. Calgary	80.6
30. Montreal	80.6
31. St. Patrick's	80.6
32. Memorial	80.6
33. Moncton	80.6
34. Mount Allison	80.6
35. Bishop's	80.6
36. Saskatchewan	80.6
37. UBC	80.6
38. Winnipeg	80.6
39. New Brunswick	80.6
40. Windsor	80.6
41. Regina	80.6
42. Lakerhead	80.6
43. Regina	80.6
44. Lakerhead	80.6
45. Mount Saint Vincent	80.6
46. St. Thomas	80.6
47. Cape Breton (UNCB)	80.6
48. Brock	80.6

PROPORTION WHO GRADUATE

Maclean's measures the percentage of full-time undergraduates who completed their degree within one year of the expected graduation date.

	PER CENT
1. McGill	92.7
2. Queen's	92.6
3. Toronto	91.9
4. Montreal	91.3
5. Western	91.3
6. York	91.3
7. Saint Mary's	91.3
8. York	91.3
9. York	91.3
10. York	91.3
11. York	91.3
12. York	91.3
13. York	91.3
14. York	91.3
15. York	91.3
16. York	91.3
17. York	91.3
18. York	91.3
19. York	91.3
20. York	91.3
21. York	91.3
22. York	91.3
23. York	91.3
24. York	91.3
25. York	91.3
26. York	91.3
27. York	91.3
28. York	91.3
29. York	91.3
30. York	91.3
31. York	91.3
32. York	91.3
33. York	91.3
34. York	91.3
35. York	91.3
36. York	91.3
37. York	91.3
38. York	91.3
39. York	91.3
40. York	91.3
41. York	91.3
42. York	91.3
43. York	91.3
44. York	91.3
45. York	91.3
46. York	91.3
47. York	91.3



Bellevue attracts out-of-province students

OUT OF PROVINCE (FIRST YEAR)

Percentage of students from other provinces

PRIMARY UNDERGRADUATE

	PER CENT
1. Mount Allison	91.7
2. Bishop's	90.6
3. Acadia	90.6
4. St. Patrick's	90.6
5. St. Thomas	90.6
6. Saint Mary's	90.6
7. Lakerhead	90.6
8. Lakerhead	90.6
9. Lakerhead	90.6
10. Lakerhead	90.6
11. Lakerhead	90.6
12. Lakerhead	90.6
13. Lakerhead	90.6
14. Lakerhead	90.6
15. Lakerhead	90.6
16. Lakerhead	90.6
17. Lakerhead	90.6
18. Lakerhead	90.6
19. Lakerhead	90.6
20. Lakerhead	90.6
21. Lakerhead	90.6
22. Lakerhead	90.6
23. Lakerhead	90.6
24. Lakerhead	90.6
25. Lakerhead	90.6
26. Lakerhead	90.6
27. Lakerhead	90.6
28. Lakerhead	90.6
29. Lakerhead	90.6
30. Lakerhead	90.6
31. Lakerhead	90.6
32. Lakerhead	90.6
33. Lakerhead	90.6
34. Lakerhead	90.6
35. Lakerhead	90.6
36. Lakerhead	90.6
37. Lakerhead	90.6
38. Lakerhead	90.6
39. Lakerhead	90.6
40. Lakerhead	90.6
41. Lakerhead	90.6
42. Lakerhead	90.6
43. Lakerhead	90.6
44. Lakerhead	90.6
45. Lakerhead	90.6
46. Lakerhead	90.6
47. Lakerhead	90.6

COMPREHENSIVE

	PER CENT
1. Columbia	91.7
2. New Brunswick	91.6
3. Carleton	91.6
4. Victoria	91.6
5. Memorial	91.6
6. Windsor	91.6
7. Simon Fraser	91.6
8. Regina	91.6
9. Lakerhead	91.6
10. York	91.6
11. Windsor	91.6

MEDICAL DOCTORAL

	PER CENT
1. Dalhousie	99.8
2. McGill	99.7
3. Ottawa	99.4
4. Queen's	99.3
5. Alberta	99.3
6. Calgary	99.3
7. Western	99.3
8. UBC	99.3
9. Memorial	99.3
10. Simon Fraser	99.3
11. Manitoba	99.3
12. Toronto	99.3
13. Sherbrooke	99.3
14. McMaster	99.3
15. Lakerhead	99.3
16. York	99.3
17. Brock	99.3



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Canada

INTERNATIONAL
(FIRST YEAR)Percentage of students from
outside Canada.PRIMARYLY
UNDERGRADUATE

	PERCENT
1 Acadia	25.6
2 Wilfrid Laurier	24.5
3 Saint Mary's	22.3
4 Mount Saint Vincent	20
5 Cape Breton (CIBC)	17.2
6 Mount Allison	16.4
7 York	16.3
8 UConn	15
9 Brock	14.8
10 Ryerson	14.5
11 UPEI	14.3
12 Laurentian	13.2
13 Winnipeg	12.9
14 Memorial	11.8
*25 St. Francis Xavier	11.4
*25 St. Thomas	11.4
31 UNBC	11
32 Brandon	10.5
33 Wilfrid Laurier	10.5
34 Lakehead	10.3
35 Nipissing	10.2

Mount Allison
scored high for
international students
and student awards.INTERNATIONAL
(GRADUATE)Percentage of graduate students
from outside Canada.

COMPREHENSIVE

1 Windsor	23.4
2 Simon Fraser	19.9
3 Concordia	18.2
4 Laurier	17.6
5 Nova Brunswick	16.8
6 Victoria	15.2
7 Waterloo	14.6
8 York	14.4
9 Regina	13.8
10 Lakehead	13
33 Guelph	12.3

MEDICAL DOCTORAL

1 McGill	86.7
2 Montreal	75.2
3 Laval	72.9
4 McMaster	59.4
5 Toronto	57
6 UBC	65.5
7 Ottawa	64.8
8 Western	63.3
9 Bishops	61.1
10 Queens	53.3
11 Alberta	50.9
12 Memorial	47.7
13 Saskatchewan	46.8
14 Calgary	41.1
15 Sherbrooke	31.1

COMPREHENSIVE

	PERCENT
1 Windsor	47.1
2 Waterloo	26.6
3 Concordia	23.9
4 New Brunswick	23.4
5 Regina	22.5
6 Guelph	21.7
7 Victoria	21
8 Memorial	20.5
9 Christian	18.9
30 York	15.2
31 Simon Fraser	14.2

MEDICAL DOCTORAL

1 Saskatchewan	26.4
2 Queens	24.5
3 Alberta	24.2
4 McGill	23.1
5 Laval	20.3
6 UBC	19.2
7 Bishops	19.9
8 Montreal	18.9
9 McMaster	18.7
10 Saskatchewan	16.8
31 Ottawa	16.6
32 Toronto	15
33 Calgary	14.9
*14 Montreal	14.1
*14 Western	14.1

STUDENT AWARDS

The top year (July 2002-2003)
of the number of students,
per 1,000, who have won
national awards.PRIMARYLY
UNDERGRADUATE

1 Mount Allison	4.2
*2 Acadia	3.5
*4 Winnipeg	3.5
4 UPEI	3.3
5 St. Francis Xavier	3.2
6 UNBC	3
7 York	2.8
8 Laurentian	2.2
*9 Laurier	2.1
*10 Saint Mary's	2.1
*12 Bishop's	1.9
*13 Lethbridge	1.8
34 Brock	1.5
*16 Brandon	1
*18 Wilfrid Laurier	1
17 Nipissing	0.8
18 Mount Saint Vincent	0.4
*19 Cape Breton (CIBC)	0.3
*19 Ryerson	0.3
21 St. Thomas	0.2

COMPREHENSIVE

1 Waterloo	6.2
*2 Guelph	5.8
*3 Simon Fraser	5.6
4 Carleton	5.4
5 Victoria	4.8
6 New Brunswick	4.1
7 York	3.4
8 Regina	2.8
9 Concordia	2.5
10 Memorial	2.4
31 Windsor	1.6

MEDICAL DOCTORAL

1 McGill	50.5
2 Queen's	43.3
3 UBC	31.7
4 Toronto	29.6
5 Alberta	27
6 Bishops	26.8
*7 McMaster	26
*8 Laval	25.3
*9 York	24.2
*10 Wilfrid Laurier	21
11 Nipissing	19.8
*12 Ottawa	19.6
*13 Toronto	18
*14 Calgary	14.9
*15 Montreal	14.1
*16 Western	14.1

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The view from the head of the classroom at Western.

CLASSES

For undergraduates, the classroom is the front line of learning. Maclean's takes account of the percentage of students in each of six distinct class-size ranges. And, since tenure is a significant measure of a faculty member's worth, Maclean's measures the commitment of universities to placing tenured and tenure-stream professors at the head of first-year classes.

CLASSES TAUGHT BY TENURED FACULTY
Maclean's measures the percentage of first-year classes taught by tenured or tenure-track professors.

PRIMARY UNDERGRADUATE

	PERCENT
1. Cape Breton (UNBC)	89.6
2. UPEI	76.2
3. Saint Mary's	73.9
4. Brandon	73.8
5. Mount Allison	73.7
6. York	71.4
7. St. Francis Xavier	71.3
8. Lakehead	70.2
9. Newsway	69.3
10. Brock	66.1
11. St. John's	65.4
12. Guelph	64.9
13. Maricopa	62.1
14. Acadia	57.4
15. UBC	54.6
16. Winnipeg	54.5
17. Carleton	54
18. St. Thomas	53.1
19. Mount Saint Vincent	50
20. Wilfrid Laurier	45.3
21. Wilfrid Laurier	38

COMPREHENSIVE

1. Waterloo	89
2. Guelph	78.4
3. New Brunswick	62.9
4. York	61.5
5. Windsor	56.7
6. Memorial	55
7. Victoria	49.9
8. Simon Fraser	46.8
9. Concordia	45
10. Regina	42.3
11. Carleton	35.8

MEDICAL DOCTORAL

1. Western	77.8
2. Toronto	71.8
3. St. Michael's	69.8
4. Saskatchewan	65.3
5. Laval	62.3
6. Calgary	61.7
7. Montreal	59.3
8. Queens	56.1
9. McMaster	55.1
10. Manitoba	52.8
11. Ottawa	52.6
12. Alberta	50.3
13. Dalhousie	48.9
14. McGill	47.7
15. UBC	43.2

Not included in the methodology: none.

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COUNCIL FOR
BIOTECHNOLOGY
INFORMATION

* High lycopene tomatoes are still undergoing research and are not yet available commercially.

Food ideas are amazing.

PERCENTAGE OF STUDENTS IN EACH CLASS-SIZE RANGE

First- and second-year level

PRIMARYLY UNDERGRADUATE

	1-25	26-50	51-100	101-200	201-500	501+
1 Belmont	18.31	41.38	27.93	none	none	none
2 Cape Breton (COCB)	26.36	41.84	34.32	3.47	none	none
3 Mount Saint Vincent	26.79	45.28	30.62	4.5	none	none
4 Acadia	26.94	36.77	21.13	5.53	1.57	none
5 Brent	42.05	13.76	33.31	21.43	none	none
6 Westport	54.62	44.80	32.07	5.35	none	none
7 Brandon	23.62	53.4	34.97	5.01	none	none
*8 Acadia	13.73	46.77	32.36	3.63	none	none
*9 St. Thomas	12.32	42.44	35.25	none	none	none
10 UNBC	35.96	22.58	35.48	23.01	none	none
11 St. Francis Xavier	14.86	42.85	34.11	9.56	3.12	none
12 Wapitig	23.11	39.61	26.83	20.05	none	none
13 UPEI	18.48	36.81	30.35	11.36	5.94	none
14 Laurentian	21.5	30.99	22.05	19.6	4.32	none
15 Saint Mary's	13.25	37.37	30.71	18.58	none	none
16 Lethbridge	15.92	26.34	19.11	31.54	none	none
17 Ryerson	5.34	35.31	35.81	23.63	0.93	none
18 Lakehead	13.64	27.62	12.87	36.87	4	none
19 Mount Allison	6.47	23.67	35.61	31.1	none	none
20 Wilfrid Laurier	5.14	22.33	39.93	36.7	1.8	none
21 Brock	7.50	24.61	23.43	32.14	13.55	none

COMPREHENSIVE

1 Memorial	11.23	40.71	35.38	7.13	4.56	none
2 Concordia	13.75	33.61	39.53	9.55	none	4.88
4 New Brunswick	13.11	21.5	29.37	34.61	1.36	none
5 Waterloo	10.97	17.85	30.97	35.90	3.33	none
6 Carleton	25.37	17.38	13.68	28.18	15.84	none
7 Victoria	11.83	25.46	36.62	25.79	7.23	none
8 Carleton	6.38	12.11	20.2	35.12	12.88	none
9 Simon Fraser	10.43	13.73	28.08	40.75	17.85	none
10 Windsor	6.3	9.61	39.91	33.93	15.95	none
11 York	6.47	9.7	29.98	44.81	14.84	1.79

MEDICAL DOCTORAL

1 Sherbrooke	17.85	44.52	32.64	6.82	none	none
2 Montreal	16.75	28.1	48.39	17.88	1.87	none
3 Saskatchewan	21.65	21.28	25.41	24.54	6.75	none
4 Laval	17.29	19.2	32.13	36.77	1.62	none
5 Victoria	16.82	18.96	32.94	11.85	9.51	1.29
6 Ottawa	12.83	13.77	30.36	35	3.25	none
*7 Dalhousie	4.45	21.09	30.74	31.49	7.96	1.74
*7 McMaster	3.73	18.92	26.32	43.87	3.28	none
9 Alberta	6.6	12.5	26.41	34	15.45	none
10 Calgary	4.7	15.06	29.69	39.7	9.99	none
11 UBC	9.92	19.28	27.71	41.51	10.98	1.18
12 McGill	6.71	13.65	23.31	34.28	12.82	7.96
13 Queen's	5.8	18.67	27.2	39.72	15.79	1.62
14 Toronto	6.92	18.67	19.54	41.38	16.64	6.32
15 McMaster	3.78	7.44	29.76	40.15	27.85	none

PERCENTAGE OF STUDENTS IN EACH CLASS-SIZE RANGE

Third- and fourth-year level

PRIMARYLY UNDERGRADUATE

	1-25	26-50	51-100	101-200	201-500	501+
1 Mount Saint Vincent	16.48	31.54	none	none	none	none
2 Cape Breton (COCB)	16.36	38.34	7.61	none	none	none
3 Brandon	13.78	36.76	none	none	none	none
4 Bishop's	44.51	11.58	1.52	none	none	none
5 Trent	42.84	11	6.95	none	none	none
*6 Acadia	12.13	37.23	6.9	1.75	none	none
*7 Wapitig	10.32	37.23	13.36	none	none	none
*8 Mount Allison	10.7	40.86	9.86	none	none	none
9 St. Francis Xavier	48.03	20.27	9.07	1.73	none	none
10 Acadia	26.58	10.83	3.2	none	none	none
11 Saint Mary's	41.15	59.92	8.83	none	none	none
*12 Laurier	52.11	34.94	36.57	7.28	none	none
*12 UNBC	44.75	35.95	35.56	none	none	none
*13 Wapitig	46.03	45.68	4.29	6.99	none	none
14 UPEI	44.5	11.65	30.15	2.2	none	none
15 Lethbridge	28.62	44.34	13.18	2.41	none	none
17 St. Thomas	45.26	27.96	26.79	none	none	none
18 Lakehead	27.26	43.81	17.95	1.88	none	none
19 Wilfrid Laurier	24.64	53.51	34.11	1	none	none
20 Brock	28.1	44.27	18.93	5	none	none
21 Ryerson	18.85	44.79	31.64	5.73	none	none

COMPREHENSIVE

1 Regina	44.85	42.46	11.32	1.58	none	none
2 Memorial	32.08	68.34	12.63	6.13	1.94	none
3 New Brunswick	33.64	68.61	21.63	6.67	none	none
4 Carleton	49.37	11.05	26.26	11.32	2.02	none
5 Concordia	29.56	42.32	12.28	8.61	1.81	none
6 Victoria	26.92	28.12	26.83	5.43	none	none
7 Waterloo	23.07	26.69	32.46	5.96	none	none
8 York	37.05	26.71	28.57	12.1	none	none
*9 Simon Fraser	37.14	32.17	25.32	12.88	3.64	none
*10 Waterloo	34.71	28.61	25.75	9.81	3.82	none
11 Carleton	32.28	22.92	32.49	16.32	0.79	none

MEDICAL DOCTORAL

1 Saskatchewan	33.8	49.09	19.13	none	none	none
2 Western	26.25	25.64	19.62	5.18	none	none
3 Dalhousie	33.58	38.06	22.95	6.23	none	none
*4 McMaster	25.60	29.79	30.59	2.0	none	none
*4 Sherbrooke	21.80	55.25	21.36	1.7	none	none
6 McGill	31.62	37.95	28.78	5.62	1.83	none
7 Montreal	27.73	32.65	19.67	5.83	0.24	none
8 Calgary	25.93	27.75	29.71	11.21	none	none
9 Laval	32.21	26	26.42	12.87	none	none
10 Ottawa	26.26	33.53	33.38	6.81	none	none
11 Alberta	33.13	28.29	29.64	16.25	1.1	none
12 Toronto	32.86	30.1	32.83	11.36	2.05	none
13 Queen's	34.26	29.55	25.26	18.62	3.57	none
14 McMaster	22.51	20.94	29.33	27.20	none	none
15 UBC	16.47	26.38	28.23	21.87	4.03	none

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FACULTY

The calibre of the faculty is vital to the students' own development. Maclean's calculates the percentage of faculty with a Ph.D. It also measures their success at winning national awards and peer-adjudicated grants from the three main federal granting agencies, as well as from the Canada Council.



FACULTY WITH PH.D.s

Maclean's measures the percentage of full-time faculty with a Ph.D.

PRIMARYLY UNDERGRADUATE

	percent
1 Saint Mary's	14.4
2 St. Thomas	14.0
3 Wilfrid Laurier	13.8
4 Acadia	12.4
5 Trent	11.4
6 UBC	10
7 Mount Allison	10.8
8 Brock	10.2
9 Laval	10.5
10 Mount Saint Vincent	10.5
11 St. Francis Xavier	10.3
12 Laurentian	10.2
13 UP	10.2
14 Wilfrid Laurier	10.2
15 York	10.2
16 York	10.2
17 York	10.2
18 York	10.2
19 York	10.2
20 York	10.2
21 York	10.2

COMPREHENSIVE

	percent
1 Waterloo	10.2
2 Waterloo	10.2
3 Waterloo	10.2
4 York	10.2
5 Saint Mary's	10.2
6 Wilfrid Laurier	10.2
7 Concordia	10.2
8 Concordia	10.2
9 Memorial	10.2
10 New Brunswick	10.2
11 Brock	10.2
12 Brock	10.2
13 Brock	10.2
14 Brock	10.2
15 Brock	10.2
16 Brock	10.2
17 Brock	10.2
18 Brock	10.2
19 Brock	10.2
20 Brock	10.2
21 Brock	10.2

MEDICAL DOCTORAL

	percent
1 BCC	10.2
2 Toronto	10.2
3 Alberta	10.2
4 Western	10.2
5 Ottawa	10.2
6 Laval	10.2
7 McMaster	10.2
8 McMaster	10.2
9 Queen's	10.2
10 Saskatchewan	10.2
11 McGill	10.2
12 McGill	10.2
13 McGill	10.2
14 McGill	10.2
15 McGill	10.2
16 McGill	10.2
17 McGill	10.2
18 McGill	10.2
19 McGill	10.2
20 McGill	10.2
21 McGill	10.2

FACULTY AWARDS

The five-year, Jan. 1998-2002 data on the number of full-time professors, per 1,000, who have won national awards.

PRIMARYLY UNDERGRADUATE

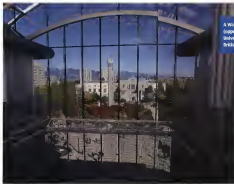
	per 1,000
1 Mount Allison	6.5
2 Trent	6.4
3 UPEI	5.5
4 York	4.4
5 St. Thomas	3.8
6 Laval	3.6
7 Acadia	3.1
8 Wilfrid Laurier	2
9 Laurentian	1.8
10 Brock	1.7
11 Wilfrid Laurier	1.7
12 Brandon	1.4
13 Ryerson	1.2
14 Waterloo	1.2
15 Bishop's	1.0
16 Cape Breton (UNIC)	none
17 Mount Saint Vincent	none
18 Rensselaer	none
19 UNIC	none
20 St. Francis Xavier	none
21 Saint Mary's	none

COMPREHENSIVE

	per 1,000
1 Waterloo	1.8
2 Saint Mary's	1.8
3 Wilfrid Laurier	1.7
4 York	1.5
5 York	1.5
6 Wilfrid Laurier	1.5
7 New Brunswick	1.3
8 Concordia	1.3
9 Memorial	1.3
10 York	1.3
11 Concordia	1.3

MEDICAL DOCTORAL

	per 1,000
1 Queen's	12.9
2 Toronto	9.6
3 McGill	9.5
4 UBC	8.3
5 Memorial	6.3
6 Alberta	5.7
7 Ottawa	5.3
8 McMaster	4.9
9 York	4.6
10 York	4.6
11 York	4.6
12 York	4.6
13 York	4.6
14 York	4.6
15 York	4.6
16 York	4.6
17 York	4.6
18 York	4.6
19 York	4.6
20 York	4.6
21 York	4.6



A Waterloo class (possibly) at the University of British Columbia

SOCIAL SCIENCES AND HUMANITIES GRANTS

Below are the average size and number of peer-reviewed research grants from both the Social Sciences and Humanities Research Council and the Canada Council. The size of grants is based per eligible full-time faculty member; the number of grants is per 100 eligible full-time faculty members. The ranking reflects a weighted average of the two.

PRIMARYLY UNDERGRADUATE

	per 100	per 100
1 St. Francis Xavier	35,298	25.34
2 UNBC	4,215	24
3 UPEI	3,571	16.23
4 Wilfrid Laurier	3,713	17
5 Brandon	4,416	14.2
6 Brock	3,816	13.03
7 Trent	2,663	14.25
8 Laval	4,279	14.25
9 Saint Mary's	20,917	13.85
10 Wilfrid Laurier	3,720	13.75
11 St. Thomas	2,433	9.92
12 Mount Saint Vincent	2,094	9.43
13 Acadia	2,353	9.25
14 Brandon	1,644	9.25
15 Mount Allison	1,308	9.25
16 Wilfrid Laurier	1,644	9.25
17 York	1,456	9.25
18 York	1,456	9.25
19 York	1,456	9.25
20 York	1,456	9.25
21 York	1,456	9.25

COMPREHENSIVE

	per 100	per 100
1 Waterloo	35,579	25.35
2 Concordia	6,632	21.34
3 Wilfrid Laurier	4,140	19.17
4 York	5,657	18.42
5 York	4,154	18.42
6 York	5,008	18.42
7 York	4,074	18.42
8 York	4,074	18.42
9 York	4,074	18.42
10 York	4,074	18.42
11 York	4,074	18.42
12 York	4,074	18.42
13 York	4,074	18.42
14 York	4,074	18.42
15 York	4,074	18.42
16 York	4,074	18.42
17 York	4,074	18.42
18 York	4,074	18.42
19 York	4,074	18.42
20 York	4,074	18.42
21 York	4,074	18.42

MEDICAL DOCTORAL

	per 100	per 100
1 Toronto	536,234	53.35
2 McGill	11,726	53.12
3 UBC	14,813	42.27
4 Memorial	11,339	31.81
5 McMaster	10,868	28.65
6 Alberta	10,779	31.65
7 Ottawa	11,635	25.55
8 Queen's	8,452	30.67
9 York	9,811	27.15
10 York	9,811	27.15
11 York	9,811	27.15
12 York	9,811	27.15
13 York	9,811	27.15
14 York	9,811	27.15
15 York	9,811	27.15
16 York	9,811	27.15
17 York	9,811	27.15
18 York	9,811	27.15
19 York	9,811	27.15
20 York	9,811	27.15
21 York	9,811	27.15

MEDICAL/SCIENCE GRANTS

Here are the average size and number of peer-adjudicated research grants from both the Natural Sciences and Engineering Research Council and the Canadian Institutes of Health Research. The size of grants is based per eligible full-time faculty member; the number of grants is per 100 eligible full-time faculty members. The ranking reflects a weighted average of the two.

PRIMARYLY UNDERGRADUATE

	per 100	per 100
1 Trent	145,618	85.21
2 Wilfrid Laurier	29,417	79.71
3 St. Francis Xavier	19,352	81.82
4 Mount Allison	18,387	75.76
5 Brock	22,179	65
6 Wilfrid Laurier	17,167	66.65
7 Ryerson	14,146	30.91
8 Wilfrid Laurier	13,962	64.79
9 Wilfrid Laurier	13,862	51.29
10 UPEI	12,181	56.81
11 Wilfrid Laurier	15,946	46.51
12 Acadia	10,504	54.17
13 Wilfrid Laurier	9,401	40.99
14 UPEI	9,303	45.97
15 Wilfrid Laurier	6,725	40
16 Wilfrid Laurier	5,681	42.86
17 Wilfrid Laurier	6,725	36.15
18 Wilfrid Laurier	1,786	35.87
19 Cape Breton (UNIC)	2,351	31.68
20 Mount Saint Vincent	1,500	5.52
21 Wilfrid Laurier	N/A	N/A

COMPREHENSIVE

	per 100	per 100
1 Waterloo	145,525	100.00
2 Mount Allison	14,861	149.18
3 York	10,414	138.61
4 Wilfrid Laurier	48,795	127.05
5 York	47,482	124.11
6 Wilfrid Laurier	77,204	109.12
7 Wilfrid Laurier	37,851	104.12
8 Wilfrid Laurier	11,375	98.5
9 New Brunswick	21,507	79.79
10 Wilfrid Laurier	27,545	78.14
11 Wilfrid Laurier	23,529	56.64

MEDICAL DOCTORAL

	per 100	per 100
1 Toronto	11,116,790	208.68
2 McGill	11,726	153.77
3 UBC	17,638	150.47
4 Wilfrid Laurier	82,313	154.36
5 Wilfrid Laurier	14,116	140.40
6 Wilfrid Laurier	79,848	121.78
7 Wilfrid Laurier	18,121	118.88
8 Wilfrid Laurier	79,124	116.61
9 Wilfrid Laurier	64,900	110.61
10 Wilfrid Laurier	12,106	106.08
11 Wilfrid Laurier	14,116	111.87
12 Wilfrid Laurier	14,116	111.87
13 Wilfrid Laurier	14,116	111.87
14 Wilfrid Laurier	14,116	111.87
15 Wilfrid Laurier	14,116	111.87
16 Wilfrid Laurier	14,116	111.87
17 Wilfrid Laurier	14,116	111.87
18 Wilfrid Laurier	14,116	111.87
19 Wilfrid Laurier	14,116	111.87
20 Wilfrid Laurier	14,116	111.87
21 Wilfrid Laurier	14,116	111.87

FINANCES

The financial resources at a university's disposal determine its ability to provide students with many valuable opportunities. Maclean's measures the size of the operating budget per weighted full-time-equivalent student, as well as the percentage of the budget devoted to student services and to scholarships and bursaries.

OPERATING BUDGET

Operating expenditures per weighted full-time-equivalent student.

PRIMARILY UNDERGRADUATE

1 Mount Allison	\$18,659
2 UNBC	9,585
3 Bishop's	9,531
4 UPEI	9,447
5 Laurentian	9,387
6 Brandon	9,043
7 Macquarie	8,757
8 Ryerson	8,544
9 St. Francis Xavier	8,487
10 Lakehead	8,116
11 Acadia	8,034
12 Uvic	7,849
13 Lakehead	7,748
14 Saint Mary's	7,684
15 Mount Saint Vincent	7,118
16 Cape Breton (CBBCE)	7,046
17 St. Thomas	7,094
18 Winnipeg	6,681
19 Ryerson	6,536
20 Wilfrid Laurier	6,245
21 Brock	4,510

COMPREHENSIVE

1 Simon Fraser	\$6,227
2 Memorial	6,931
3 Victoria	6,673
4 Carleton	6,186
5 Regina	6,762
6 Windsor	6,664
7 Waterloo	7,362
8 New Brunswick	7,389
9 Carleton	7,431
10 York	7,342
11 Concordia	7,183

MEDICAL DOCTORAL

1 Ottawa	\$18,794
2 Toronto	9,829
3 McMaster	9,482
4 Saskatchewan	9,289
5 Alberta	9,181
6 Montreal	8,937
7 Laval	8,686
8 Western	8,547
9 Dalhousie	8,893
10 Calgary	8,390
11 McGill	8,113
12 Queen's	7,967
13 Manitoba	7,567
14 Saskatchewan	7,332
15 UBC	6,960

SCHOLARSHIPS & BURSARIES

Percentage of total operating expenditures devoted to scholarships and bursaries.

PRIMARILY UNDERGRADUATE

1 Trent	9.6%
2 Wilfrid Laurier	9.4%
3 Lakehead	8.2%
4 Laurentian	8.0%
5 St. Thomas	8.3%
6 Wilfrid Laurier	8.0%
7 Bishop's	6.3%
8 Brock	6.9%
9 Ryerson	6.3%
10 Brandon	6.3%
11 Saint Mary's	4.8%
12 St. Francis Xavier	6.4%
13 UPEI	4.2%
14 Mount Allison	4.1%
15 Mount Saint Vincent	3.6%
16 Acadia	3.2%
17 Winnipeg	3%
18 UNBC	2.8%
19 Lakehead	2.4%
20 Brandon	2.3%
21 Cape Breton (CBBCE)	1.8%

COMPREHENSIVE

1 Carleton	11.1%
2 York	9.5%
3 Waterloo	8.4%
4 Regina	7.4%
5 Western	7.3%
6 St. John's	7.6%
7 Windsor	6.5%
8 Memorial	5.8%
9 Simon Fraser	5.6%
10 New Brunswick	4.2%
11 Concordia	4.1%

MEDICAL DOCTORAL

1 Queen's	\$4,511
2 Western	\$4,618
3 Toronto	\$4,721
4 Alberta	\$4,447
5 Moncton	\$4,729
6 UBC	\$4,759
7 McGill	\$4,646
8 Montreal	\$4,917
9 Calgary	\$4,617
10 Dalhousie	\$4,321
11 Ottawa	\$4,644
12 McMaster	\$4,212
13 Laval	\$4,512
14 Saskatchewan	\$4,611
15 Manitoba	\$4,611

STUDENT SERVICES

Percentage of total operating expenditures devoted to student services.

PRIMARILY UNDERGRADUATE

1 Bishop's	13.3%
2 Wilfrid Laurier	10.4%
3 Winnipeg	9.3%
4 St. Thomas	9.2%
5 Wilfrid Laurier	7.7%
6 Brock	7.0%
7 Macdonald	6.7%
8 Ryerson	6.3%
9 St. Francis Xavier	5.7%
10 Saint Mary's	6.1%
11 Cape Breton (CBBCE)	6.0%
12 Wilfrid Laurier	5.8%
13 Trent	5.7%
14 Acadia	5.5%
15 Lakehead	5.4%
16 Mount Allison	5.2%
17 Brandon	5.8%
18 Laurentian	4.5%
19 UPEI	4.2%
20 Mount Saint Vincent	4.3%

COMPREHENSIVE

1 Carleton	7.2%
2 York	6.5%
3 Carleton	5.6%
4 Montreal	5.9%
5 Western	5.2%
6 Waterloo	5.2%
7 Waterloo	5.1%
8 Regina	4.6%
9 New Brunswick	5.5%
10 Simon Fraser	3.8%
11 Concordia	3.6%

MEDICAL DOCTORAL

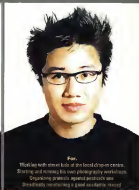
1 UBC	7.2%
2 Toronto	7.1%
3 Ottawa	6.5%
4 Calgary	6.2%
5 Western	6.1%
6 Alberta	4.9%
7 Saskatchewan	4.6%
8 Montreal	4.6%
9 McMaster	4.4%
10 McGill	4.4%
11 Queen's	4.3%
12 Laval	4.6%
13 Dalhousie	4.6%
14 Manitoba	5.9%

WANTED



Fact

Volunteering to deliver meals to senior citizens.
Organizing for a concert with fellow music students.
Competing for engineering internships.
A report card so solid, so clean.



Foe

Thief-like with stream beds at the local drop-in center.
Stealing and running his own photography workshop.
Organizing protests against pesticides used
illegally in a local schoolyard.

REWARD

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LIBRARY

The library is the heart of many campuses. Maclean's measures the commitment to library funding, including electronic access, as well as the collection's size and currency.



TOTAL LIBRARY HOLDINGS

This table lists universities' total holdings in off-campus libraries, acknowledging the important role of extensive on-campus collections at liberal arts and medical universities.

MEDICAL DOCTORAL

	IN MILLIONS
1. Toronto	14,197
2. Alberta	8,781
3. UBC	5,713
4. Western	5,572
5. Montreal	5,431
6. Queen's	5,242
7. Calgary	5,081
8. McGill	4,915
9. Laval	4,694
10. Saskatchewan	4,385
11. Ottawa	4,203
12. Manitoba	3,131
13. McMaster	3,072
14. Dalhousie	2,724
15. Sherbrooke	1,844

Library strength at Simon Fraser (top) and the University of Alberta



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HOLDINGS PER STUDENT

These figures show the number of volumes at all campus libraries, divided by the number of full-time-equivalent students.

PRIMARYLY UNDERGRADUATE

1 Brandon	752
2 Mount Allison	356
3 Acadia	290
4 St. Thomas	269
5 UPEI	218
6 Moncton	215
7 Bishop's	202
*8 Lethbridge	228
*9 St. Francis Xavier	226
10 UNBC	212
11 Laurentian	211
12 Laskland	211
13 Mount Saint Vincent	193
14 Saint	187
15 Cape Breton (CUBC)	186
16 Victoria	180
17 Wilfrid Laurier	157
18 Saint Mary's	150
19 Brock	137
20 Wilfrid Laurier	96
21 Ryerson	70

COMPREHENSIVE

1 Memorial	260
2 New Brunswick	256
3 Victoria	212
4 George	210
5 Windsor	210
6 Regina	156
7 Carleton	202
8 Waterloo	193
9 York	252
10 Concordia	225
11 Simon Fraser	226

MEDICAL, DOCTORAL

1 Alberta	383
2 Queen's	295
3 Saskatchewan	295
4 Toronto	263
5 Western	278
6 BCC	210
7 Calgary	208
8 Ottawa	207
*9 Laval	196
*10 McGill	195
11 Dalhousie	177
12 McMaster	166
13 Manitoba	148
14 Montreal	137
15 Sherbrooke	116

ACQUISITIONS

To gauge the currency of resources, *Maclean's* reviews the proportion of the library budget allocated to updating the university's collection, including electronic access.

PRIMARYLY UNDERGRADUATE

1 Lethbridge	56.23
2 UNBC	44.73
3 Mount Saint Vincent	43.93
4 St. Francis Xavier	41.3
5 Moncton	41.35
6 Brock	36.35
7 Acadia	33.64
8 Winnipeg	31.43
9 Mount Allison	31.41
10 UPEI	30.59
11 Lethbridge	29.67
12 Wilfrid Laurier	30.41
13 Ryerson	35.2
14 Nipissing	34.85
15 Bishop's	32.43
16 Brandon	22.46
17 Lethbridge	32.28
18 Cape Breton (CUBC)	31.54
19 St. Thomas	25.00
20 Saint Mary's	25.67
21 Trent	25.99

COMPREHENSIVE

1 Simon Fraser	46.62
2 Windsor	44.00
3 Victoria	40.50
4 George	32.42
5 Carleton	40.19
6 Regina	40.54
7 Waterloo	40.57
8 Memorial	36.36
9 York	38.36
10 Carleton	39.61
11 New Brunswick	29.85

MEDICAL, DOCTORAL

1 McGill	52.76
2 Queen's	52.72
3 Toronto	51.98
4 Western	53.01
5 Saskatchewan	49.58
6 McMaster	49.25
7 Sherbrooke	48.3
8 Laval	45.08
9 Alberta	45.83
10 Calgary	44.17
11 Quebec	43.87
12 Manitoba	41.8
13 Montreal	40.43
14 UBC	40.55
15 Ottawa	38.63

EXPENSES

A measure of financial commitment, this indicator shows the percentage of the university budget devoted to maintaining library services.

PRIMARYLY UNDERGRADUATE

1 Bishop's	7.06
2 UNBC	6.75
3 Winnipeg	6.72
4 Mount Allison	6.2
5 Lethbridge	5.94
6 Moncton	5.78
7 Brock	5.75
8 Wilfrid Laurier	5.73
9 Lethbridge	5.65
10 Trent	5.40
11 Brandon	5.40
12 Saint Mary's	5.31
13 Acadia	5.37
*14 St. Francis Xavier	5.82
*15 St. Thomas	5.82
16 Laurentian	4.89
17 UPEI	4.44
18 Nipissing	4.34
19 Mount Saint Vincent	4.12
20 Cape Breton (CUBC)	4.09
21 Ryerson	3.60

COMPREHENSIVE

1 Memorial	7.1
2 New Brunswick	6.78
3 Carleton	6.6
4 Windsor	6.59
5 Victoria	6.31
6 Regina	5.8
7 Simon Fraser	5.8
8 George	5.75
9 Waterloo	5.50
10 York	5.44
11 Concordia	6.11

MEDICAL, DOCTORAL

1 Toronto	6.59
2 UBC	6.29
3 McGill	7.90
4 Manitoba	7.49
5 Alberta	7.38
6 Western	7.23
7 Queens	7
8 Saskatchewan	6.26
9 Calgary	6.13
10 Montreal	5.99
11 Dalhousie	5.46
12 Ottawa	4.93
13 Laval	4.86
14 McMaster	4.71
15 Sherbrooke	4.81

WHEN DOES A MINIVAN STOP BEING A MINIVAN?



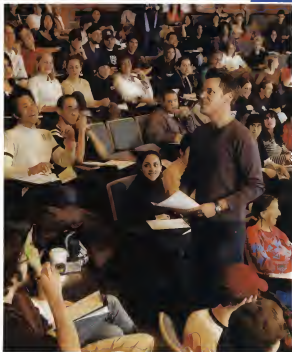
THE 2004 SIENNA

Maybe it's after you step on the gas, around the 8.3 second mark. That's all it takes the radically new Sienna's 230 hp V6 to get it to 60 mph. Or maybe it's when you first take in its sweeping aerodynamic design. Or its stylish centre console shifter. Of course, eight seats*, available rear seat DVD player and a special 3rd row seat that flips out of the way tells you it didn't stop being a minivan. It just goes like no other minivan. See your Toyota Dealer for details or call 1-888-TOYOTA-8 or visit www.toyota.ca.

REPUTATION

A solid reputation attracts the best students and professors—and gives graduates an enviable calling card. Maclean's measures a university's reputation with the community at large, as well as with its own alumni.

Mark Klapcott
framing a first-
year philosophy
class at Toronto



NATIONAL REPUTATIONAL RANKING

This ranking combines all 42 universities from the three categories into one group. It reflects the opinion of a diverse range of social, high-school, parents and postsecondary institutions from every province and territory, university officials at each school/institution, the heads of a wide variety of national and regional organizations, plus CEOs and executives at corporations large and small.

When selecting the head of the three respondent lists, Maclean's took each individual to complete a questionnaire. University officials, principals and post-secondary heads also completed regional surveys. Drawing all answers from Maclean's database, we combined the data to produce the final results.

BEST OVERALL

- 1 Toronto
- 2 Waterloo
- 3 Queen's
- 4 McGill
- 5 Alberta
- 6 UBC
- 7 McMaster
- 8 Bingham
- 9 Western
- 10 Simon Fraser
- 11 Acadia
- 12 Sherbrooke
- 13 Montreal
- 14 Mount Allison
- 15 Ucalgary
- 16 Dalhousie
- 17 Saskatchewan
- 18 Calgary
- 19 Laval
- 20 St. Francis Xavier
- 21 Wilfrid Laurier
- 22 York
- 23 New Brunswick
- 24 York
- 25 York
- 26 New Brunswick
- 27 Manitoba
- 28 Trent
- 29 Concordia
- 30 Brock
- 31 Brock
- 32 York
- 33 York
- 34 York
- 35 York
- 36 York
- 37 York
- 38 York
- 39 York
- 40 York
- 41 York
- 42 York
- 43 York
- 44 York
- 45 York
- 46 York
- 47 York

HIGHEST QUALITY

- 1 Queen's
- 2 McGill
- 3 Toronto
- 4 Toronto
- 5 Queen's
- 6 UBC
- 7 Alberta
- 8 Bingham
- 9 York
- 10 Simon Fraser
- 11 Windsor
- 12 Sherbrooke
- 13 Victoria
- 14 Montreal
- 15 Calgary
- 16 Mount Allison
- 17 Dalhousie
- 18 Ryerson
- 19 St. Francis Xavier
- 20 York
- 21 Saskatchewan
- 22 Wilfrid Laurier
- 23 York
- 24 New Brunswick
- 25 York
- 26 York
- 27 York
- 28 York
- 29 York
- 30 York
- 31 York
- 32 York
- 33 York
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- 35 York
- 36 York
- 37 York
- 38 York
- 39 York
- 40 York
- 41 York
- 42 York
- 43 York
- 44 York
- 45 York
- 46 York
- 47 York

MOST INNOVATIVE

- 1 Toronto
- 2 Toronto
- 3 McMaster
- 4 Queen's
- 5 Queen's
- 6 UBC
- 7 Alberta
- 8 Bingham
- 9 York
- 10 Simon Fraser
- 11 Windsor
- 12 Sherbrooke
- 13 Victoria
- 14 Montreal
- 15 Calgary
- 16 Mount Allison
- 17 Dalhousie
- 18 Ryerson
- 19 St. Francis Xavier
- 20 York
- 21 Saskatchewan
- 22 Wilfrid Laurier
- 23 York
- 24 New Brunswick
- 25 York
- 26 York
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- 40 York
- 41 York
- 42 York
- 43 York
- 44 York
- 45 York
- 46 York
- 47 York

LEADERS OF TOMORROW

- 1 Toronto
- 2 Waterloo
- 3 Alberta
- 4 Queen's
- 5 McGill
- 6 UBC
- 7 McMaster
- 8 Bingham
- 9 York
- 10 Simon Fraser
- 11 Windsor
- 12 Sherbrooke
- 13 Victoria
- 14 Montreal
- 15 Calgary
- 16 Mount Allison
- 17 Dalhousie
- 18 Ryerson
- 19 St. Francis Xavier
- 20 York
- 21 Saskatchewan
- 22 Wilfrid Laurier
- 23 York
- 24 New Brunswick
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- 34 York
- 35 York
- 36 York
- 37 York
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- 39 York
- 40 York
- 41 York
- 42 York
- 43 York
- 44 York
- 45 York
- 46 York
- 47 York

ALUMNI SUPPORT

Maclean's measures the percentage of a class who made gifts to the university over a five-year period.

PRIMAIRY UNDERGRADUATE

- 1 St. Francis Xavier 35.4
- 2 Winnipeg 35.6
- 3 Saint Mary's 33.9
- 4 Bishop's 32.7
- 5 Moncton 23.5
- 6 Mount Allison 22.2
- 7 St. Thomas 20.7
- 8 Mount Saint Vincent 19.7
- 9 Saint 12.9
- 10 Wilfrid Laurier 12.2
- 11 UPEI 11.5
- 12 Acadia 11.4
- 13 Lethbridge 11.4
- 14 Brock 11.3
- 15 Ryerson 11.1
- 16 Wilfrid Laurier 11.1
- 17 Lethbridge 11.1
- 18 Cape Breton (CIBC) 7.8
- 19 Laurier 5.9
- 20 Ryerson 3.8
- UNIC 3.6

COMPREHENSIVE

- 1 Waterloo 33.1
- 2 York 31.1
- 3 York 24.2
- 4 Simon Fraser 14.6
- 5 Moncton 13.5
- 6 York 12.6
- 7 Windsor 12.6
- 8 New Brunswick 12.5
- 9 York 12.4
- 10 Victoria 12.1
- 11 Regina 4.3

MEDICAL DOCTORAL

- 1 Toronto 26.1
- 2 York 24.2
- 3 McGill 23.4
- 4 Sherbrooke 18.4
- 5 Queen's 18.1
- 6 Montreal 16.4
- 7 UBC 15.7
- 8 Moncton 15.6
- 9 Calgary 15.3
- 10 Alberta 14.3
- 11 York 13.9
- 12 Ottawa 13.7
- 13 Mount Allison 13.1
- 14 Saskatchewan 12.1
- 15 Laval 12.1

*Includes all full descriptions of the methodology page 40.

†UNIC which reported in 2001 in response to a request from the University of the Atlantic. Since then, the University of the Atlantic (UNIC) has been reporting its scores in the rankings.

VALUE ADDED

When it comes to getting a grade, bridging the distance with their students is this report's mission. Consider: students from 100,000 to 1,000,000. We developed two sets of figures and identified these universities with the greatest differentials between the two. The first set includes universities related to the increasing student-to-graduate ratio, and the proportion of students achieving with honours of 75 per cent or higher. The second includes the percentage of students who return to second year—and two measures of student achievement: the proportion of students who graduate within a reasonable time frame and who win student awards.

1. Lakehead
2. Trent
3. Regina
4. St. Mary's
5. Laurier
6. Saint Mary's
7. York
8. Brock
9. McMaster
10. Carleton
11. Memorial
12. Ryerson
13. New Brunswick
14. Ottawa
15. Toronto



THE MACLEAN'S DIRECTORY | Every university in the Maclean's survey has a unique history, a distinct mission—and its own particular strengths. The student numbers below refer to the 2002-2003 academic year.

ACADIA

Wolfville, N.S. (1983)
Full-time students: 3,106
Part-time students: 305

ALBERTA

Edmonton, Alta. (1980)
Full-time students: 25,432
Part-time students: 4,267

UNIVERSITY OF ALBERTA

Edmonton, Alta. (1940)
Full-time students: 1,900
Part-time students: 522

BRANDON

Brandon, Man. (1890)
Full-time students: 2,039
Part-time students: 1,294

BRITISH COLUMBIA (UNIVERSITY)

Vancouver, B.C. (1980)
Full-time students: 26,050
Part-time students: 11,141

BROCK

St. Catharines, Ont. (1946)
Full-time students: 5,253
Part-time students: 1,157

CALGARY

Calgary, Alta. (1968)
Full-time students: 21,180
Part-time students: 5,109

CARLETON

Ottawa, Ont. (1943)
Full-time students: 13,739
Part-time students: 4,712

CONCORDIA

Montreal, Que. (1892)
Full-time students: 18,889
Part-time students: 11,612

DALHOUSIE

Halifax, N.S. (1813)
Full-time students: 12,410
Part-time students: 2,358

GUELPH

Guelph, Ont. (1940)
Full-time students: 14,500
Part-time students: 1,430

LAKELAND

Thunder Bay, Ont. (1960)
Full-time students: 5,351
Part-time students: 1,368

LAURENTIAN

Sudbury, Ont. (1980)
Full-time students: 4,346
Part-time students: 2,307

LUKAL

Quebec City, Que. (1940)
Full-time students: 16,000
Part-time students: 14,400

LETHBRIDGE

Lethbridge, Alta. (1947)
Full-time students: 6,125
Part-time students: 964

MANITOBA

Winnipeg, Man. (1817)
Full-time students: 16,236
Part-time students: 6,701

MCCLELLAN

Montreal, Que. (1920)
Full-time students: 15,237
Part-time students: 5,867

MCMASTER

Hamilton, Ont. (1817)
Full-time students: 16,138
Part-time students: 3,466

MEMORIAL

St. John's and Corner Brook, Nfld. (1921)
Full-time students: 13,336
Part-time students: 2,953

MONTGOMERY

Moncton, N.B. (1960)
Full-time students: 4,400
Part-time students: 1,300

MONTREAL

Montreal, Que. (1870)
Full-time students: 35,567
Part-time students: 17,048

MOUNT ALLISON

Sackville, N.B. (1931)
Full-time students: 3,248
Part-time students: 773

MOUNT SAINT VINCENT

Halifax, N.S. (1917)
Full-time students: 3,200
Part-time students: 1,054

NEW BRUNSWICK (UNIVERSITY)

Fredericton and Saint John, N.B. (1810)
Full-time students: 10,076
Part-time students: 2,887

NIPESING

North Bay, Ont. (1962)
Full-time students: 2,153
Part-time students: 1,400

NORTHERN BRITISH COLUMBIA (UNIVERSITY)

Prince George, B.C. (1940)
Full-time students: 3,400
Part-time students: 1,100

OTTAWA

Ottawa, Ont. (1826)
Full-time students: 21,508
Part-time students: 4,962

PRINCE EDWARD ISLAND (UNIVERSITY)

Charlottetown, P.E.I. (1900)
Full-time students: 1,308
Part-time students: 345

QUEEN'S

Kingston, Ont. (1811)
Full-time students: 19,717
Part-time students: 3,806

REGINA

Regina, Sask. (1910)
Full-time students: 7,448
Part-time students: 6,877

RYERSON

Toronto, Ont. (1961)
Full-time students: 11,946
Part-time students: 12,525

ST. FRANCIS XAVIER

Antigonish, N.S. (1910)
Full-time students: 1,417
Part-time students: 761

SAINT MARY'S

Halifax, N.S. (1911)
Full-time students: 3,346
Part-time students: 1,072

ST. THOMAS

Fredericton, N.B. (1900)
Full-time students: 2,753
Part-time students: 271

SAGINAW CHURCH

Saskatoon, Sask. (1900)
Full-time students: 14,044
Part-time students: 3,586

SALISBURY

Shelburne, Ont. (1961)
Full-time students: 16,628
Part-time students: 4,077



Canadian Virtual University Partners

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THE BOTTOM LINE

For students and parents, the key question is: what does it really cost to go to university? Well, that depends on where you want to study. Since 1996, the average tuition fees for the typical undergraduate have risen by more than 90 per cent, in constant dollars. But the cost varies enormously across the country. Take British Columbia: since the province lifted its six-year freeze in 2002, universities have raised fees for the typical undergrad, on average, by 62 per cent. Even so, tuition levels are considerably lower than in the most costly province, Nova Scotia. And while most provinces have increased tuition fees at a much more conservative rate, Newfoundland and Labrador has headed in the opposite direction, decreasing tuition by almost 23 per cent over the past three years. Ditto for Manitoba, where the province awarded students a 10-per-cent rebate on fees in 1999-2000 and has kept them frozen at that level ever since.

And then there's Quebec, where the story is a little more complex. Quebec students pay a pittance compared with their peers, as long as they are residents of the province. And thanks to a number of international agreements, there are students from a wide variety of countries—including Israel, Senegal, Italy—who are eligible to get the same deal. For these students, fees have been frozen since 1964. But for students from elsewhere in Canada, tuition has been creeping up.

Given the enormous range of fees, Maclean's has ranked the universities with a student's pocketbook in mind. All fees are for undergraduate arts and science programs as of September 2003. The names of several universities appear twice: Quebec institutions where out-of-province fees apply, and universities where there are different fees for arts programs and science programs.

Montreal is the cheapest, no long as you are a Quebec resident

UNIVERSITY	TUITION	CONTRIBUTORY MATERIALS*	TOTAL
McGill (Quebec students)	\$1,246	\$252	\$1,498
UofT (Quebec students)	1,368	428	2,096
McMaster (Quebec students)	1,418	418	2,036
Waterloo (Quebec students)	1,568	368	2,336
Concordia (Quebec students)	1,668	367	2,435
McGill (Quebec students)	1,868	1,110	2,888
Windsor (Arts)	2,118	339	2,945
McMaster	2,158	442	2,952
Uttara (Arts)	2,158	327	2,957
Uttara (Science)	2,195	297	2,992
Windsor (Science)	2,118	315	3,035
McMaster	2,255	238	3,093
St. Thomas	2,035	119	\$2,111
UofT	3,458	917	4,038
Simon Fraser	3,713	483	4,114
Manitoba	4,126	45	4,191
Victoria	3,616	582	4,217
UofT	3,657	558	4,255
McGill (out-of-province students)	4,613	252	4,405
UofT (out-of-province students)	4,612	428	4,440
Uttara	4,118	297	4,535
Yorkville	4,118	297	4,535
Uttara	4,118	413	4,576
Lakeland	4,118	428	4,578
UofT	4,118	450	4,612
McMaster (out-of-province students)	4,113	493	4,604
Regina (Arts)	4,112	411	4,623
Victoria	4,114	448	4,624
Regina (Arts)	4,114	581	4,697
Regina	3,556	748	4,708
Saskatchewan (Arts)	4,129	395	4,715
Uttara	4,114	567	5,140
Regina (Science)	4,142	411	4,753
Uttara	4,654	178	4,754
Uttara	4,114	376	4,761
Regina (Science)	4,391	383	4,774
Calgary	4,120	389	4,779
Alfred	4,329	473	4,772
Uttara (Arts)	4,114	564	4,738
McMaster	4,130	617	4,808
Queens	4,153	520	4,815
New Brunswick	4,518	321	4,820
Uttara	4,114	740	4,960
Regina	4,118	927	4,967
York	4,114	794	4,918
Regina	4,115	798	4,973
Quebec (out-of-province students)	4,613	567	4,938
York (out-of-province students)	4,173	940	5,044
Saskatchewan (Science)	4,688	319	5,075
Carleton	4,678	518	5,158
St. Mary's (Arts)	4,545	366	5,111
McGill (out-of-province students)	4,658	497	5,147
McGill (out-of-province students)	4,173	1,152	5,365
St. Mary's (Science)	3,645	366	5,411
McGill (Arts)	3,444	187	5,467
St. Mary's (Arts)	5,198	319	5,538
McGill (out-of-province students)	5,126	497	5,617
Uttara (Arts)	5,126	479	5,698
St. Francis Xavier	5,118	574	5,894
Uttara (Science)	5,046	478	5,418
Acadia	7,612	246	7,258

*Contributory materials (text books, lab fees, etc.) are not included in the total. Students can opt out of materials which are not required for the program. If they are covered by another funding source, they are not included.

2003 Guide To Ontario Colleges

PROFILING ONTARIO'S COLLEGES OF APPLIED ARTS & TECHNOLOGY



Graduating from Ontario's Colleges... The new measure of success.

Getting the right education to match your career choice is what counts most in today's marketplace. That's why more than a million of the province's success stories are Ontario College graduates. Leaders and dream-makers, designers, builders, technologists—they are the professionals who make our world work every day. And they continue to discover the lasting benefits of their College education. The province's publicly funded colleges offer the highest quality programs targeted to the high-demand professions. Flexible and current, they are built to keep up with changing times.

A FEW INNOVATIONS THAT MAKE ONTARIO'S COLLEGES UNIQUE:

- The new bachelor degree, a rigorous, four-year applied academic program, offering the benefit of practice in addition to theory
- Market-responsive programs that are attuned to business and industry and meet high academic standards
- Dynamic learning environments supported by industry standard technology
- Internationally recognized skills
- Experienced faculty connected to the real world of work
- Thousands of career choices
- High graduate employment rates, many programs reaching 100 per cent within six months of graduation

Ontario College graduates get the right start for successful careers in dozens of key professions. From health-care workers, scientists and software developers to television producers and CEOs, they are on the front lines and behind the scenes, driving every aspect of work and life. Ontario College grads are the new measure of success—making their mark here and around the world.

QUICK STATS ABOUT ONTARIO'S PUBLICLY FUNDED COLLEGES:

- Education offering the commensurate and critical thinking skills employers want today
- Programs integrated with today's top information technology
- Partnerships with leading industry players
- 850 learning sites in 200 communities across the province
- 150,000 full-time and approximately 250,000 part-time students every year
- More than a million successful graduates

FIND OUT MORE
WWW.ONTARIOCOLLEGES.CA

Algonquin College

BECOMING THE LEADING CANADIAN COLLEGE

Algonquin College is proud to be ranked number one in student satisfaction in the Ontario College system.

Algonquin leads in the integration of technology into the post-secondary learning landscape. E-learning has become an integral part of nearly all programs, as the College has over 90 multimedia classrooms and more than 300 courses in the 'hybrid' format. Blending classroom time with online learning activities—and offering seven programs that utilize wireless laptops.

Algonquin is at the forefront of advanced-technology applied research with the launch of three leading-edge research centres. The College offers exciting new applied degrees in photonics and e-business supply chain management, and is preparing to launch an applied degree in interior design.

Substantial development is evident throughout Algonquin's physical landscape. Major investments have been made to build and renovate facilities and expand student services, including three student residences, providing a total of 1,950 beds, 30 of which are barrier-free.

Algonquin remains committed to adapting its programs and services in order to respond continually responsive to the needs of business and industry. One such example is the recent investment in a residential automotive facility.

Algonquin's 72 advisory committees enable the College's programs to stay current in all of its Schools. Academics: Advancement and Languages, Advanced Technology, Business, Health and Community Studies, Hospitality and Tourism, Media and Design and Transportation and Building Trades. The Police and Public Safety Institute, in partnership with local and provincial police services, prepares students for careers in law enforcement, security and emergency response. Programs in Algonquin's Pembroke and Perth 6 campuses serve the needs of our rural clientele and address the growth in the outdoor adventure, heritage, forestry and forestry industries.

Algonquin's International Education Centre hosts students from 70 countries and the College's Distance Education Department delivers over 450 courses to 5,500 students via the Internet.

With its breadth of on-class and online programs and client-centred focus, Algonquin College is positioned to become Canada's leading college. To realize this vision, the College will build upon the solid foundation of dedicated staff and successful graduates, as reflected this year by Algonquin's fourth Ontario Premier's Award in five years.



QUICK STATS

WEB SITE: <http://algonquincollege.com>
CAMPUS: Ottawa, various sites, Pembroke, north.
ENROLLMENT: Fall 2002: 14,000; Continuing Education: 1,000 registrations
SACRED: Full-time 505, Part-time 573
REVENUE: Student Fees: \$2.2M; Institutional: From \$3.5M to \$4.7M
CONTACT: 800-565-4023, Ottawa: 613-721-0002
 Pembroke: 613-735-4780 ext. 2761, Perth: 613-381-3439
 TTY: 613-721-0796
 Fax: 613-721-7632, E-Mail: register@algonquincollege.com
ON-CAMPUS HOUSING: 1,950 beds
FINANCIAL AID: \$4.8 million
COMPUTER ACCESS: 4,000 workstations, 1,200 laptops available
MAJOR POPULAR PROGRAMS: Business Administration, Police Preselection, Dental Hygiene, Paramedic, Social Service Worker, Early Childhood Education, Child and Youth Worker, Broadcasting, Hairdressing, Photography, Graphic Design
CO-OP EDUCATION: 11 programs

TRANSFER AGREEMENTS/COLLABORATION PROGRAMS: Transfer Agreements: Algonquin, Carleton, College of the Rockies, Lakeland, McMaster, Nipissing, Okanagan University College, Royal Roads, Ryerson Technical and Further Education (RTAFE), New South Wales, Australia, University College of Cape Breton, University College of the Cariboo, Calgary, Douglas, Lehigh Valley, New Brunswick, Ontario, Western Ontario, Western Sydney, Australia, Collaboration Programs: Bachelor of Science in Nursing with the University of Ottawa, Bachelor of Information Technology, Interactive Media and Design with Carleton University, Bachelor of Information Technology-Network Technology with Carleton University

PROFILING ONTARIO'S COLLEGES OF APPLIED ARTS & TECHNOLOGY



Association of Colleges of Applied Arts
and Technology of Ontario
Association des collèges d'arts appliqués
et de technologie de l'Ontario



OCAS
SACS
Ontario College Application Services
Services d'admission des collèges de l'Ontario

ALGONQUIN
COLLEGE

Collège Boréal

TECHNOLOGICAL SKILLS, BILINGUAL CAPABILITY: GREAT JOB READINESS

Renowned for its innovative teaching methods and learner support services, Collège Boréal offers French-language postsecondary and career training programs in a wide variety of areas. With its seven campuses spread over Northern and Central-Southeastern Ontario, it serves a territory covering two-thirds of the province.

Learners are the first point of our college as is clearly shown by the results of our recent surveys on performance indicators. For the second year in a row, Boréal has obtained the highest graduates' rate of satisfaction among all Ontario colleges: 2001-2002: 85 per cent / 2000-2001: 87.6 per cent.

Closely monitoring the needs of the business and industry sectors paid off, since we reached second place for employer satisfaction with our students: 2001-2002: 94.7 per cent / 2000-2001: 95 per cent. Our college also has an outstanding reputation for its approach to integrating technologies in the classroom, i.e. with state-of-the-art labs and facilities, and the use of portable computers in many programs. BORÉAL EDU is the e-learning development and production centre. It allows the delivery of courses divided into learning objects, thus giving more flexibility and access opportunities to those wishing to upgrade their training.

To facilitate our graduates' access to the job market, we have developed the Job Guaranteed initiative which offers unsurpassed support after graduation. As part of this unique initiative, Collège Boréal makes the following commitment to the students of eight of its programs: "Should a graduate not find a job within 16 months after graduation or the job prove unsatisfactory, for any reason whatsoever, he or she will be able to register in a second program without having to pay tuition fees."

Also, preparing our learners to work in both official languages gives them an edge when seeking employment. In an increasingly competitive world, being able to work in several languages is a significant asset, if not a requirement. Being keenly aware of the market demand, well-trained in information technology and bilingual, our graduates are sought after throughout our region, our province, and beyond.

We invite you to take a close look at Collège Boréal, to get to know our programs and services, visit our Web site and talk to our learners. We are convinced that you will feel welcomed and that there is a place for you at Collège Boréal.



QUICK STATS

Web site: www.boreal.ca

CAMPUS: 7 campuses in Ontario: Sudbury, Peterborough, Oshawa, Kawartha, 3 in Northern Ontario: Kirkland, Nipissing, Timmins

ENROLLMENT: 12,000 students (2002)

REGISTER: 27-31 hours per week

TUTION: \$3,000 per semester plus fees (varies)

CONTACT: 1-800-363-6262 or 705-526-2222 ext. 2222

ON-CAMPUS: courses in administration

FINANCIAL AID: available

COMPUTER: having a computer is one of the factors in attaining the highest grades in college education. The 50 or more computers in our classrooms, mostly on advanced technology in the business and information systems, our credit courses, and the Internet, provide a rich context for our students' learning. Our computer lab is a state-of-the-art facility with a dedicated network of computers and a dedicated Internet connection. We also have a dedicated network of computers and a dedicated Internet connection.

TRANSFER AGREEMENTS: available for students transferring from other colleges and universities.

CO-OP EDUCATION: available for students who have a field placement in their program.

TRANSFER AGREEMENTS: available for students transferring from other colleges and universities.

Cambrian College

EDUCATING FOR GLOBAL OPPORTUNITIES

Known for academic excellence, innovative thinking, and progressive approaches and directions, Cambrian is a great place to live and learn, to become career ready, and to set the stage for future personal and professional success. "Our focus," says Cambrian President Sylvia Barnard, "is to provide an educational base upon which our graduates can build, to provide a foundation for career development and success in the global marketplace."

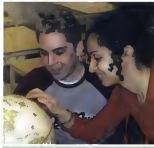
The Cambrian experience is one that encompasses both the academic and social aspects of life that combines theory with practical exposure in modern equipment, and that links to business, industry, and the economic development of our country. It's an experience designed to broaden the student's perspective, to challenge her/his ability, and to encourage and support academic and personal achievement.

Situated in the heart of one of Sudbury's major entertainment and shopping areas, Cambrian's main campus on Berrysdown Road is the hub of the College's activities. This teaching, learning and research environment provides Cambrian students with access to some of the most sophisticated programming in the skilled trades, and in the information technology fields: computer and electronic fields in Ontario. As well, it houses the College's applied research components and offers a high-tech multi-media facility that provides global access to Cambrian's programming. "We are educating for global opportunities," states Barnard.

Students can choose from over 100 full-time programs and more than 800 part-time continuing education programs, courses, seminars, customized training packages, and distance education opportunities. A number of these programs and courses are delivered through teleconferencing, independent study and the Internet.

Through a comprehensive student services area, services and programs are available that support student success—and through an active and respected student government, students have the opportunity to be involved in both the social and operational dimensions of college life. Cambrian's commitment to students is also evidenced by its focus on the advancement of Native education and by its status as a leader in meeting the needs of parents living a variety of learning challenges.

For the past 36 years, Cambrian has been preparing students for the changing economy and has been partnering with business and industry as well as with universities and other institutions to ensure that students have every academic and employment advantage. "Statistics continue to tell us that we're on the right track, that we're successful in meeting student and employer needs," states Barnard. "We're pleased and are looking forward to the next 36 years of serving our many communities."



QUICK STATS

Web site: www.cambrian.ca

CAMPUS: 10 campuses in Ontario: Sudbury, Peterborough, Oshawa, Kawartha, 3 in Northern Ontario: Kirkland, Nipissing, Timmins

ENROLLMENT: 12,000 students (2002)

REGISTER: 27-31 hours per week

TUTION: \$3,000 per semester plus fees (varies)

CONTACT: 1-800-363-6262 or 705-526-2222 ext. 2222

ON-CAMPUS: courses in administration

FINANCIAL AID: available

COMPUTER: having a computer is one of the factors in attaining the highest grades in college education. The 50 or more computers in our classrooms, mostly on advanced technology in the business and information systems, our credit courses, and the Internet, provide a rich context for our students' learning. Our computer lab is a state-of-the-art facility with a dedicated network of computers and a dedicated Internet connection. We also have a dedicated network of computers and a dedicated Internet connection.

TRANSFER AGREEMENTS: available for students transferring from other colleges and universities.

CO-OP EDUCATION: available for students who have a field placement in their program.

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CO-OP EDUCATION: available for students who have a field placement in their program.



Canadore College

AN ENVIRONMENT FOR LEARNING

From the time Canadore College opened its doors in 1963, we've taken pride in creating the best possible environment for learning. Here in the beautiful city of North Bay, just 180 minutes north of Toronto, you'll discover three easily accessible campuses—the new Aviation Campus, Commerce Court and the Education Centre, which is situated on a stunning 750-acre wooded escarpment overlooking the city.

Canadore offers more than 70 full-time postsecondary programs in the areas of Aviation, Business, Health and Community Services, Hospitality/Tourism, Information and Communications Technologies and Preparatory and Skilled Trades programs. Students studying in any of our Business Programs can choose to earn while they learn by choosing co-op. As well, many of Canadore's programs incorporate practical work experience. Each year, 3,000 students enjoy the Canadore experience—small class sizes, personalized learning and direct access to exceptional faculty and support services, including an Aboriginal Learning Unit and a strong special needs department. Every student has access to career counselling and our graduates get jobs. Canadore students also have a unique opportunity to turn their college diploma into a university degree. Canadore shares a campus with Nipissing University, and the two schools have an agreement which provides degree completion opportunities for all diploma graduates.

We're also continuously expanding to meet your needs and look forward to opening a new apartment-style student residence in September 2004 to complement our existing three-bedroom-style residences.

At Canadore, we'll discover an exhilarating environment packed with activities and social events that will round out your education and make your college years more exciting and memorable. Participate in Fresh week, where new students are introduced to college life and to each other in an action-packed orientation week, and visit the Wall Student Pub, a great place to relax and unwind with friends.

Canadore students are also encouraged to participate in more than 40 different athletic and recreation programs—everything from intramural sports to whitewater rafting, snowboarding and horseback riding. Another hobby and variety sports include golf, baseball, netball, badminton, soccer, hockey and basketball.

Take advantage of all that Canadore College has to offer—contact us for more information about programs, services and student life, or to arrange a tour! Be sure to visit our Web site www.canadore.on.ca.



AN ENVIRONMENT FOR LEARNING



QUICK STATS

OVER 100 PROGRAMS AVAILABLE

CAMPUS: Canadore has three campuses in North Bay and a continuing education centre in Port Hope.

ENROLLMENT: 10,000 (1,000 Full-time, 1,500 per semester)

Tuition: \$2,875/semester (tuition fees only vary by program. Some programs are a separate cost to purchase specialized equipment or supplies).

CONTACT INFO: Lakeria O'Neil, 705-476-7600 ext. 5460
info@canadore.on.ca / Admissions Office 705-476-7600
ext. 3123, admissions@canadore.on.ca, 1-800-360-455-2862

ON-CAMPUS HOUSING: In September 2004, a new 140-bed residence will open, joining existing, our existing residences which house 254 students.

FINANCIAL AID: More than \$750,000 each year.

CAMPUS ACCESS: Campus life on board throughout Canadore College and access is available to the residence.

MAJOR POPULAR PROGRAMS: Programs in our top academic areas: Aviation, Health and Community Services, Hospitality/Tourism, Information and Communications Technologies.

CO-OP EDUCATION: Students studying in any of Canadore's Business Programs can choose to earn while they learn by choosing co-op. As well, many of Canadore's programs incorporate practical work experience.

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Canadore College has an agreement with Nipissing University, which provides diploma program graduates degree completion opportunities at Nipissing. We also have articulation agreements with other universities and colleges across Canada and the U.S., which provide our students with flexible learning pathways. In collaboration with Nipissing, Canadore offers a Bachelor of Science in Marketing. As well, we co-operatively offer a Bachelor of Arts in Criminal Justice to graduates of our Licensed Worker and Police Training programs.

Centennial College

PREPARE FOR YOUR SUCCESS

With new bachelor's degrees and post diploma offerings, strong industry links and a comprehensive range of diploma programs, Centennial's first community college takes your career as high as you want to climb. Centennial now offers 10 degree programs, six in partnership with the University of Toronto at Scarborough (UTSC) and one with Ryerson University. Our 14 post-diploma programs prepare college and university graduates to go from classroom to boardroom in one year or less.

Our new four-year degree programs in computer networks, software design and integrated accounting combine theoretical and applied learning, as well as paid co-op opportunities with employers. In fact, all of Centennial's programs emphasize practical experience with laboratory learning, agency placements or co-op education assignments. Our career-oriented programs are designed and reviewed by industry experts.

Centennial is a college of opportunity, making education accessible to all. English as a Second Language instruction, General Arts & Sciences, college and university prep programs, corporate training and continuing education courses serve thousands every year, helping learners shape their personal paths to success.

The new Centennial HP Science and Technology Centre heralds an exciting era in post-secondary education. The \$65-million campus, with its emphasis on digital resources and a wireless computing infrastructure, is an advanced learning environment that will put powerful class networks literally at the palm of your hand. The campus opens in 2004 at UTSC. And there's much more. Our Centre for Creative Communications was named one of Canada's best multimedia schools by the editors of *Slate* magazine. There's a dynamic living and learning environment in Centennial's unique residence, a former hotel, an award-winning Student Centre designed with your needs in mind, Canada's largest transportation technology training centre, and an internationally one-student province that will enrich your learning experience.

You'll find passionate instructors and staff, and innovative offerings all aimed at your success. We'll even develop a Personalized Success Plan to make sure you get access to the services that best suit your needs.

Centennial College is a comprehensive place of learning that continues to challenge the definition of community college. What will not change is our ability to help you reach your career goals.



QUICK STATS

WEB SITE: www.centennialcollege.ca

CAMPUS: Four, 4000 students on site

ENROLLMENT: 12,000 full-time, 35,000 continuing education

CACITY: 450 full-time, 1,200 part-time

Tuition: \$2,392 (most programs), \$10,425 (international track including residency fees)

CONTACT INFO: Mona Jurek-Gambino, 416-290-5321. Admissions enquiries: 416-290-5300. Continuing education: 416-290-5300. International admissions: 416-290-5303. E-mail: admits@centennialcollege.ca.

ON-CAMPUS HOUSING: Internship in the Program Campus deal accessible to other students in the program.

FINANCIAL AID: Approximately \$1.5 million

CAMPUS ACCESS: 1,500 employees

MAJOR POPULAR PROGRAMS: Nursing, Health & Medicine, Broadcasting—Radio and TV, Production, Marketing, Social Services Worker, Child & Youth Studies, Animation, Early Childhood Education, Entertainment Management Technology, General Arts & Sciences, Computer Studies & Networks, Technology, Accounting, Technician & Technician (post-diploma).

CO-OP EDUCATION: 17 (18) programs (graduate and undergraduate technology programs), 630 placements in 2002

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: 105. Popular ones include the University of Toronto at Scarborough, Ryerson University, York University, Wilfrid Laurier University, The Algonquin Institute, Royal Roads University, University of Guelph, University of Guelph, University of Lethbridge, Newfoundland University (St. John's, NL).



centennialcollege.ca

Conestoga College

Institute of Technology
and Advanced Learning

FUELING COMMUNITY PROSPERITY

Conestoga College believes in excellence and in economic growth and prosperity.

Conestoga is in one of Canada's fastest-growing areas. Known as Canada's Technology Triangle, midwestern Ontario is diverse and prosperous, and home to many companies with global reputations for innovation and excellence. The region also has a vibrant agricultural economy.

Conestoga and local industry are partners in regional growth. Conestoga has provided education to at least 40 per cent of the local labour force and has an annual value to the local economy of at least \$1.3 billion.

For five straight years, Conestoga has earned top overall rankings in the provincial Key Performance Indicator survey, which measure graduate employment and satisfaction, and employer and student satisfaction. Conestoga has the best graduate employment rate in the province.

The college is fully registered under the ISO 9001 international quality system.

We are one of three Ontario colleges recently elevated to the new Institute of Technology and Advanced Learning status. In the future, Conestoga will offer as many as 20 degree programs to provide you with advanced opportunities for co-op education and involvement in applied research. Conestoga and several other Canadian polytechnic institutes have formed a new national organization that will result in more shared academic programs and advanced learning opportunities. Annually, Conestoga graduates more than 3,000 new professionals in Engineering Technology, Business, Information Technology, Health Sciences, Community Services, Media Studies and Skilled Trades.

We offer variety. Full-time degree, diploma and certificate programs, part-time programs and courses, postgraduate, apprenticeship and preparatory studies, on-line courses, and customized training for business and industry. Conestoga is one of Ontario's largest providers of apprenticeship education, and a major provider of career-related adult education.

Twenty-three programs now have co-op components, and every new degree program is co-op.

We are a partner in Ontario's largest Bachelor of Science in Nursing program, with McMaster University and Mohawk College. Graduates of selected diploma programs have the opportunity for further university-level studies in Canada, the United States or Australia.

The international student community at Conestoga is growing, with participating students from Latin America, Asia and Africa.

Excellence and diversity make Conestoga College a leader in community economic growth, and make our graduates highly regarded, respected and sought after.



QUICK STATS

WWW SITE: www.conestoga.ca
CAMPUS: Elginville (Elginville, Windsor, London, Cambridge, Kitchener)
ENROLLMENT: 5,000 full-time, 2,500 apprenticeship, 43,000 part-time
INDUSTRY: Full-time: 250; Part-time: several
STUDENTS: For 2003-2004, awarded tuition rates at \$2,540 (full-time diploma program), \$5,324 (degree program), international \$4,935 (including mobility fee)
CONTACT INFO: 519-440-3700 ext. 3434
info@conestoga.ca
ON-CAMPUS HOUSING: Niagara West Campus (500 capacity)
FINANCIAL AID: \$1.9 million
COMPUTER ACCESS: 1,279 lab-based PCs. Several open-access labs. Full-time students receive e-mail accounts upon registration.
MOST POPULAR PROGRAMS: Business Administration, Information Technology, Mechanical Engineering, Industrial Technology, Electrical/Electronics Engineering, Technician Technology, Nursing, Law Enforcement
CO-OP EDUCATION: 23 programs in the Sciences, Engineering Technology and Information Technology areas have co-op components
TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Program-specific agreements with universities in Ontario, Alberta, British Columbia, the United States and Australia, and with other Canadian polytechnic institutions.



Confederation College

RESPONDING TO THE NEEDS OF STUDENTS
AND EMPLOYERS IN TODAY'S WORLD

Choose the College that provides all you need to ensure success in today's world: exciting, current and relevant programs, quality learning opportunities, support faculty and staff who are focused on helping learning first, an affordable surrounding lifestyle and excellent career opportunities. Choose Confederation College.

Located in Thunder Bay, a convenient one-to-two-hour flight from other major Canadian cities, Confederation's value-added attributes make it unique among Ontario colleges.

We are especially proud of our College of Excellence. Our Aviation Centre of Excellence (ACE) positions Confederation as a national leader in aviation education and provides enhanced learning opportunities for full-time students, or pilots upgrading their skills. Four high-caliber programs, including our new Aviation program that begins in 2004, are integrated at one location at the Thunder Bay International Airport. ACE houses: left hangars, 14 aircraft and the Finesse Baron B58 Flight Training Device (FTD)—the only flight simulation training device of its kind in Canada. See a simulation of our international airport as you would see it while flying in actual aircraft.

Confederation College's Forestry Centre meets the needs of students and industry through education and research. Gain the skills to develop through programs such as our new Forestry Products Manufacturing Technician program. Beginning in 2004, this program will prepare students for rewarding careers in the pulp and paper and wood products manufacturing industries. Navigation in College of Indigenous Studies is closely linked with the Aboriginal community through an established practice of inclusion at the College, creating an environment dedicated to providing quality learning and helping students meet their goals. Beginning September 2004, Navigation will offer a Bachelor of Applied Human Services in Indigenous Leadership & Community Development, the only applied degree program of its kind in Canada. Following Indigenous principles, it will prepare graduates for leadership roles in rural, remote and urban communities around the world.

Confederation's extensive library includes e-books, with over 8,000 titles covering subjects such as computers, business, nursing, science, trades and language. Small class sizes facilitate student/teacher interaction and our student services staff ensures your successful learning experience.

Confederation College students receive a quality education that responds to the needs of employers throughout Ontario across Canada and around the world.



QUICK STATS

WWW SITE: www.confederationcollege.ca
CAMPUS: Thunder Bay, Ontario, Canada
ENROLLMENT: 1,000 full-time, 1,000 part-time, 140 currently enrolled in the International Centre
INDUSTRY: Full-time: 100; Part-time: 100
STUDENTS: For 2003-2004, awarded tuition rates at \$2,540 (full-time diploma program), \$5,324 (degree program), international \$4,935 (including mobility fee)
CONTACT INFO: 800-367-6666, 800-475-4130
ON-CAMPUS HOUSING: 1,000 capacity
FINANCIAL AID: \$1.9 million
COMPUTER ACCESS: 1,279 lab-based PCs. Several open-access labs. Full-time students receive e-mail accounts upon registration.
MOST POPULAR PROGRAMS: Business Administration, Information Technology, Mechanical Engineering, Industrial Technology, Electrical/Electronics Engineering, Technician Technology, Nursing, Law Enforcement
CO-OP EDUCATION: 23 programs in the Sciences, Engineering Technology and Information Technology areas have co-op components
TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Program-specific agreements with universities in Ontario, Alberta, British Columbia, the United States and Australia, and with other Canadian polytechnic institutions.



CONFEDERATION COLLEGE

Durham College

A DURHAM DIPLOMA PUTS YOU IN DEMAND

You'll like what you see at Durham College.

As the CIDA's top student-rated college for five consecutive years, our college offers first-rate programs, training professors, exemplary student services, superb recreational opportunities and more.

You can choose from more than 90 job-focused programs in applied sciences, business, communication arts, design, emergency services, health, human studies, integrated studies, justice, skilled trades and technology. After graduation, you can further your credentials in one year or less by pursuing one of our graduate programs.

Durham College presents many unique advantages. Not only are 90 per cent of our students employed within six months of graduation, every graduate is backed by its employer guarantee.

Our Oshawa campus is also home to Canada's newest university—the University of Ontario Institute of Technology. Not only can you earn a college diploma and a university degree at the same campus, you can do so in areas such as business and justice in as little as four years.

You'll also find a lot of excitement here. To keep pace with the demand for college programs as well as growth at the new university, we're building additional facilities.

In 2003, we added a new, five-story academic building with lecture halls, classrooms, research labs, seminar rooms and other facilities. The first phase of our new South Village residence, which brings the total number of residence spaces to nearly 1,000, was completed this year. In addition, a world-class, year-round tennis centre and a championship regulation soccer field opened in 2003.

A new library and two more academic buildings are scheduled for completion in 2004.

We're also continuing to invest significantly in information technology. Our spacious Learning Centres feature 150 computers as well as space for students to use their laptops. In 2004-05, 23 of our post-secondary programs will be offered in a mobile learning environment, and there is wireless access and Internet access on much of our Oshawa campus.

Using a current model of the IBM ThinkPad or Microsoft PowerBook, students in mobile learning programs can access course materials electronically, make digital computer-based presentations, conduct research on the Internet and pursue personal knowledge electronically—just about anywhere on campus.



QUICK STATS

WEB SITE: www.durhamcollege.ca

CAMPUS AND REGION: 1000 Lakeshore Blvd., Oshawa, Ontario, Canada
 (North America's largest urban campus) are offered at St. Catharines, Oshawa, Peterborough, and York Mills.

PROFESSIONAL/TECHNICAL/GRADUATE PROGRAMS: 100+

POPULATION: 100,000 (within 100 km)

REGIONAL: 100,000 (within 100 km)

CONTACT: 905-276-5000 (toll-free 1-800-387-0000)

ADDRESS: 1000 Lakeshore Blvd., Oshawa, Ontario, Canada L1H 8C9

ON-CAMPUS HOUSING: 1,000 beds (within 100 km) and a total of nearly 1,000 beds (within 100 km) are available in a room with two beds, full kitchen, and bathroom.

FINANCIAL AID: \$2,000 (within 100 km) and \$1,000 (within 100 km) for students with financial need.

COMPUTER: 100+ (within 100 km) and 100+ (within 100 km) post-secondary computers (within 100 km) are available.

MOST POPULAR PROGRAMS: Business, Health, Human Studies, Justice, Skilled Trades, Technology, and more.

CO-OP EDUCATION: 100+ (within 100 km) and 100+ (within 100 km) co-op education programs (within 100 km) are available.

TRANSFER: 100+ (within 100 km) and 100+ (within 100 km) transfer agreements (within 100 km) are available.

Fanshawe College

REAL LIFE...REAL CAREERS

The news is out! Fanshawe College is quickly becoming one of the hottest colleges in Ontario, where learners are given real-life experiences that lead to real careers.

There is a phenomenal true for Fanshawe College. Our full-time post-secondary student population has soared to an unprecedented level. We have opened the doors to new, state-of-the-art facilities and are offering a host of exciting and innovative new learning opportunities. We're making space for you with the recent addition of new buildings, classrooms and labs at our main campus in London including a new gymnasium and academic facility.

Looking for real experience? We offer more than 100 post-secondary programs that provide you with a unique combination of theoretical learning and practical knowledge and experience. Many (and most) of our programs offer co-operative education components (more than any other college in Canada) and others provide internships and field placements, giving you the real world, hands-on experience that employers around the world have come to expect from Fanshawe College graduates. You can also choose from one of our four bachelor degree programs in Nursing, Media Theory and Production, Integrated Land Planning Technologies (beginning 2004) and Biotechnology (beginning 2005) or choose one of our apprenticeship programs in a variety of technology and skilled trades areas.

Put your diploma or degree to work for you! At Fanshawe we offer over 40 post-graduate programs on a full or part-time basis, or take advantage of one of our many articulation/transfer agreements, putting your college credits towards a degree from universities in Canada, Australia and the United States, including a newly forged partnership (pending further approval) with D'Youville College in Buffalo, NY, that would see the American college provide programs in teacher education, health services administration and international business at Fanshawe's London campus.

With a total 90,000 students worldwide, Fanshawe College has grown to become one of Canada's top colleges, providing students with the education, services and opportunities that they need, not only to succeed, but to excel. Your education is one of the biggest investments you'll ever make. Visit us at one of our campuses in London, St. Thomas, Sarnia or Woodstock and see for yourself why we're the first choice for thousands of students each year.



QUICK STATS

WEB SITE: www.fanshawe.ca

CAMPUS AND REGION: 1000 Lakeshore Blvd., Oshawa, Ontario, Canada (North America's largest urban campus) are offered at St. Catharines, Oshawa, Peterborough, and York Mills.

PROFESSIONAL/TECHNICAL/GRADUATE PROGRAMS: 100+

POPULATION: 100,000 (within 100 km)

REGIONAL: 100,000 (within 100 km)

CONTACT: 905-276-5000 (toll-free 1-800-387-0000)

ADDRESS: 1000 Lakeshore Blvd., Oshawa, Ontario, Canada L1H 8C9

ON-CAMPUS HOUSING: 1,000 beds (within 100 km) and a total of nearly 1,000 beds (within 100 km) are available in a room with two beds, full kitchen, and bathroom.

FINANCIAL AID: \$2,000 (within 100 km) and \$1,000 (within 100 km) for students with financial need.

COMPUTER: 100+ (within 100 km) and 100+ (within 100 km) post-secondary computers (within 100 km) are available.

MOST POPULAR PROGRAMS: Business, Health, Human Studies, Justice, Skilled Trades, Technology, and more.

CO-OP EDUCATION: 100+ (within 100 km) and 100+ (within 100 km) co-op education programs (within 100 km) are available.

TRANSFER: 100+ (within 100 km) and 100+ (within 100 km) transfer agreements (within 100 km) are available.



Georgian College

BARRIE, ORILLIA, OWEN SOUND

With continuing great reviews from graduates and employers alike, Georgian College is committed to student success. How do we do such a great job? We are serious about excellence. It starts with great teachers and friendly staff who truly care about students. For the third year running, an independent national survey lists chosen Georgian as the only college or university to be included in Canada's Top 100 Employers.

For four consecutive years Georgian has consistently achieved a graduate employment rate of more than 90 per cent.

We are among the leaders in Canada in co-op education. Almost every full-time post-secondary program has a workplace component including a co-op job, an internship or a field placement.

Georgian believes education must be flexible, accessible and transferable. We provide a full range, from college preparation to diploma and post-graduate programs to applied degree and degree studies.

This fall we opened our new \$27-million Centre for Technology-Enhanced Learning. It includes a cutting-edge computerized Learning Commons with 250 computer workstations, 40 multimedia classrooms, and the Atlantic Hall lecture theatre. There's room for an additional 2,800 full-time students.

Also just opened is a huge expansion of the Barrie Campus Athletic and Student Centre with a spacious fitness centre, double gymnasium and suspended indoor running track. An Athletic Centre expansion is underway at the Orillia Campus.

The fully-wired \$25-bedroom residence at the Barrie Campus is going into its second year of operation.

The new Georgian College Institute for University Partnerships and Advanced Studies leads the way academically. Its offerings include Georgian's two new applied degrees: Bachelor of Applied Business – Automotive Management (Co-op) and Bachelor of Applied Human Services in Police Studies.

With university partners the Institute offers a BSc – Nursing with York University, a BA – Gerontology with Laurentian University, a BA with Laurentian University. Also available are co-op graduate degrees, post-graduate diplomas and many transfer agreements for Georgian graduates.

Georgian also gives the most value in financial aid. We distribute approximately \$3 million in awards and bursaries annually. This includes 92 entrance scholarships worth \$90,000, double the number of any other Ontario college.



QUICK STATS

NEW MITL (www.georgian.ca/mitl)

CAMPUSES: Barrie, Orillia, Owen Sound

ENROLLMENT: 17,000 full-time, 11,000 Part-time, 27,000

PROGAMS: 100+ (200+ Degrees, 410

DEGREES: 200+ (200+ Degrees, 410

CONTACT INFO: Campus phone: 705-722-1100

Barrie Campus: 705-722-1100

Orillia Campus: 705-324-5144 ext. 3038

Owen Sound Campus: 519-935-0940, ext. 2000

ON-CAMPUS HOUSING: Barrie (4000 residents), 225 beds

FINANCIAL AID: \$3 million annually, including 92 entrance

scholarships, double the number of any other Ontario college

COMPUTER ACCESS: All available, plus computer labs, current

software and multimedia classrooms, Centre for Technology

Enhanced Learning has 250 workstations, multimedia classrooms,

240 computer Library (Orillia)

MOST POPULAR PROGRAMS: Business, Automotive, Marketing

Automotive Manufacturing, Technology, Health Sciences, Marketing

Nursing, Veterinary Technician, Health and Human Services

Bachelor of Applied Business – Automotive Management

Co-op, Bachelor of Applied Human Services in Police

Studies

CO-OP EDUCATION: Third largest co-op college in Canada

TRANSFER AGREEMENTS/CO-OPERATIVE PROGRAMS: BSc in

Nursing (York University); BA (Hons.) (Georgian-Laurentian);

Bachelor of Manufacturing Technology (McMaster University)

Humber

THE CHOICE OF A LIFETIME

Humber Institute of Technology & Advanced Learning specializes in applied education to enable local and provincial economic development. In 2003, the Ontario government designated Humber as an Institute of Technology and Advanced Learning, with the authority to grant bachelor degrees in up to 25 program areas.

What the new designation means for you

• More choices

• Bachelor degree programs in e-Business, Industrial Design, Manufacturing Management, Psychology Studies, and Nursing (in collaboration with the University of New Brunswick). Six integrated bachelor-degree programs are also offered in partnership with the University of Guelph.

• Over 150 program options at the diploma, certificate, apprenticeship and graduate level, in

- Applied Technology
- Business
- Health Sciences
- Hospitality, Recreation & Tourism
- Information Technology & Accounting
- Liberal Arts & Sciences
- Media
- Creative & Performing Arts
- Social & Community Services

• More flexibility. Humber will provide the education you need to build your career. You may be able to transfer from a diploma program to a degree program, or use the learning achieved in an apprenticeship program to obtain admissions and appropriate credit at a degree program.

• Market relevance. Humber has an extensive network of industry relationships and partnerships from many sectors of the economy. And 86 per cent of Humber's graduates are employed within six months, and 83 per cent of employers are satisfied with Humber's graduates.

In 2003-2004, Humber is undertaking over \$131 million in capital development projects. This includes a new student centre and a 425-bed student residence at the Lakeshore Campus, and 318 new rooms at the North Campus residence. Additional extension space and expanded facilities for the bookstore and library are also planned.

In addition to providing educational services to students on the verge of entering the workforce, Humber provides over 200 certification programs and 1,000 courses for working adults, and corporate training services for enterprises and their employees.

We ask you to make the decision to succeed. Choose Humber – The Choice of a Lifetime. For more information or to arrange a tour, please call 416-675-5000.



QUICK STATS

NEW MITL (www.humber.ca/mitl)

CAMPUSES: Lakeshore, North Campus, North Campus, North Campus

ENROLLMENT: 17,000 full-time, 11,000 Part-time, 27,000

PROGAMS: 100+ (200+ Degrees, 410

DEGREES: 200+ (200+ Degrees, 410

CONTACT INFO: Campus phone: 416-675-5000

Barrie Campus: 705-722-1100

Orillia Campus: 705-324-5144 ext. 3038

Owen Sound Campus: 519-935-0940, ext. 2000

ON-CAMPUS HOUSING: Barrie (4000 residents), 225 beds

FINANCIAL AID: \$3 million annually, including 92 entrance

scholarships, double the number of any other Ontario college

COMPUTER ACCESS: All available, plus computer labs, current

software and multimedia classrooms, Centre for Technology

Enhanced Learning has 250 workstations, multimedia classrooms,

240 computer Library (Orillia)

MOST POPULAR PROGRAMS: Business, Automotive, Marketing

Automotive Manufacturing, Technology, Health Sciences, Marketing

Nursing, Veterinary Technician, Health and Human Services

Bachelor of Applied Business – Automotive Management

Co-op, Bachelor of Applied Human Services in Police

Studies

CO-OP EDUCATION: Third largest co-op college in Canada

TRANSFER AGREEMENTS/CO-OPERATIVE PROGRAMS: BSc in

Nursing (York University); BA (Hons.) (Georgian-Laurentian);

Bachelor of Manufacturing Technology (McMaster University)

GEORGIAN
YOUR COLLEGE. YOUR FUTURE.

HUMBER

Loyalist College

A TRADITION OF LEARNING AND SUCCESS

Loyalist College strives for excellence in education and support for student success. To meet the demand for exemplary post-secondary options, Loyalist proudly offers the Bachelor of Applied Arts in Human Services Management (BA44-HSM). A first of its kind, this applied degree provides graduates with knowledge, resources, theoretical, and strategic planning expertise specific to the human services sector.

Loyalist College's Superfield project has created a new 14,000-square-foot library and renovated space to provide for a new lecture hall, large computer commons, and additional classrooms. This state-of-the-art complex addresses the need to expand and improve campus facilities and ensures high-speed communications networks and enhanced information technology resources.

Located in Belleville, along the 401 corridor, the scenic campus creates a friendly, personal atmosphere that is strengthened by the unique residence village, complete with a spacious Residence Commons building, modern computer and meeting rooms, and quality accommodation for 476 students.

Innovative programs have been at the forefront of change and direction at Loyalist and offer exciting career challenges for anyone looking to the future job market. The addition of Television and New Media Production, Fitness and Health Promotion, Therapeutics, De-Lane Publishing, and a collaborative Bachelor of Science in Nursing degree program with Brock University demonstrates Loyalist's commitment to an evolving learning environment.

Recognizing the need to expand academic options for its students, the College has developed more than 75 articulation agreements with a number of recognized universities throughout Canada and internationally. Loyalist also offers post-graduate and five-track programs in the School of Media Studies to address the increased demand for employees well-versed with the latest industry equipment.

The international student body continues to grow in an increasing number of students, recognize the advantages Loyalist offers. International students find the spectacular campus setting, and supportive and friendly learning environment complement outstanding academic offerings.

Loyalist College alumni have made a significant impact on a variety of professional fields and offer outstanding testament to the College's strengths. Loyalist is proud to continue a tradition of learning and excellence.



QUICK STATS

WWW.LOYALISTCOLLEGE.CA

GRADUATES: 800 highly skilled, and career-ready graduates

EMPLOYMENT: 100% (100/100) Post-grad including continuing education 100%

MAJOR: Information Technology 27%

FUNDING: Full-time, high-level certificate program: \$2,455 including facility fees. Full-time, operational studies: \$9,166 including facility fees

CONTACT INFO: A. Feltz, Deputy Registrar, 613-663-1411 ext. 2146, info@loyalistcollege.ca, 1-888-LOYALIST1
Financial Aid: Pearl Vasey, 613-663-1411 ext. 2225, or info@loyalistcollege.ca

DISGRASSING HOUSING: Generally 475 spaces in residence. Single rooms without cost plus: \$4,200
Meal Plan: \$425 or \$450 per semester

FINANCIAL AID: \$950,000

COMPUTER ACCESS: 1,500 computer stations

MOST POPULAR PROGRAMS: Television and New Media Production, Social Services, Worker, Nursing, Police Foundations, Paralegical Studies, Early Childhood Education, Radio Broadcasting, Fitness and Health Promotion, Advertising

UNIVERSITY ARTICULATION AGREEMENTS: Melbourne, California, University of Calgary, Lethbridge, Winnipeg, Royal Roads, Victoria, University College of Cape Breton, Newfoundland, Trent University of Western Sydney, University of Waterloo, University of Western Ontario, Wilfrid Laurier University, University of Winnipeg (BSc-Nursing) Degree Program with Brock University.



The Michener Institute

100% GRADUATE EMPLOYMENT RATE

If you're interested in technology and enjoy working with people, consider a career in the applied health sciences. Doctors and nurses aren't the only health providers—hospitalists wouldn't be able to function without X-ray Technologists, Respiratory Therapists, Medical Laboratory Technologists and many more health professionals.

The Michener Institute has a long history of leadership in the applied health sciences. We've been educating health-care workers since 1958, long before many Canadian colleges and universities even existed. Located in the heart of one of North America's most prestigious medical communities—Toronto—Michener is the only publicly funded post-secondary institution in Canada that specializes in health care.

Here are five more reasons to consider Michener:

- Hands-on clinical education**
We have partnerships with over 150 of Canada's leading hospitals and health organizations to ensure students learn from the best. Clinical education provides hands-on experience and opportunities to network with colleagues and employers.
- Small class sizes**
Michener's focus on hands-on experience means class sizes remain small. We accept a limited number of students each year, so you get to interact with faculty one-on-one.
- Excellent reputation**
Thousands of satisfied students and employers can attest to Michener's expertise. In a recent survey, 90% of employers said they would hire another Michener graduate.
- Leading-edge technology**
Michener boasts some of the most advanced health science technology on the continent! In addition to a fully equipped anatomy and physiology laboratory, computer facilities and microscopy labs, Michener is home to North America's most advanced radiation therapy lab.
- Canada's best selection of health science programs**
We offer a wide range of health-science programs, as well as continuing education for health professionals. Several of Michener's programs are unique in Canada, and we're continuously developing new ones to stay on the leading edge of health technology.

Michener graduates have a wide range of career options. Aging baby boomers are creating a huge demand for medical professionals and therapists are predicted to increase in the future. For the past two years, 100% per cent of Michener graduates found jobs in their chosen fields; 95 per cent had positions before they graduated.

If you're considering a health science career, consider Michener.



QUICK STATS

WWW.MICHENERINSTITUTE.CA
GRADUATES: 100% employment rate
EMPLOYMENT: 100% (100/100) Post-grad including continuing education 100%

MAJOR: Health Sciences 100%

FUNDING: Full-time, high-level certificate program: \$2,455 including facility fees. Full-time, operational studies: \$9,166 including facility fees

CONTACT INFO: A. Feltz, Deputy Registrar, 613-663-1411 ext. 2146, info@loyalistcollege.ca, 1-888-LOYALIST1
Financial Aid: Pearl Vasey, 613-663-1411 ext. 2225, or info@loyalistcollege.ca

DISGRASSING HOUSING: Generally 475 spaces in residence. Single rooms without cost plus: \$4,200
Meal Plan: \$425 or \$450 per semester

FINANCIAL AID: \$950,000

COMPUTER ACCESS: 1,500 computer stations

MOST POPULAR PROGRAMS: Television and New Media Production, Social Services, Worker, Nursing, Police Foundations, Paralegical Studies, Early Childhood Education, Radio Broadcasting, Fitness and Health Promotion, Advertising

UNIVERSITY ARTICULATION AGREEMENTS: Melbourne, California, University of Calgary, Lethbridge, Winnipeg, Royal Roads, Victoria, University College of Cape Breton, Newfoundland, Trent University of Western Sydney, University of Waterloo, University of Western Ontario, Wilfrid Laurier University, University of Winnipeg (BSc-Nursing) Degree Program with Brock University.



Mohawk College

LEARNING ABOVE ALL

Mohawk College is leading the way in shaping the future of Canada in the 21st century, by investing today in the areas of technology and health sciences. Thriving within Ontario's industrial heartland, Mohawk College is currently home to more than 10,000 full-time students and 40,000 part-time students. Mohawk College serves the communities of Hamilton, Lincoln and Southwestern Ontario, and its faculty has earned a reputation for academic excellence in the fields of applied arts, business, health sciences and human services, and technology. In 2001, Mohawk College gained new status as a degree-granting institution, having been approved to offer three new Bachelor of Applied Technology degrees in Process Automation, Internet Systems, and Technology Management. A premier information technology centre this—both the help of industry-leading partners—will be at the forefront of programs in the IT industry, Mohawk College is providing leadership and academic excellence in this field. The \$18-million IT centre will house such unique areas as an e-learning centre and a centre for innovation and applied research.

Mohawk College also continues to be a vital player in the delivery of mid-career programs and services in this country, with 1,400 students at any given time studying in various health-care programs. Mohawk College provides one of the best health-care professionals in 10 different disciplines and in 2002, celebrated the launch of a collaborative nursing degree program with McMaster University. Beginning in September 2004, Mohawk College and McMaster University will be offering a fully integrated diploma-degree program in medical radiation sciences—one of the first of its kind for students pursuing careers in the field of medical imaging. Mohawk College is also establishing transfer agreements with institutions such as Wilfrid Laurier University (Ontario), Brock University (Ontario), Athabasca University (Alberta) and the University of Western Sydney (Australia). Mohawk College's unique partnership with Laurier University gives students an opportunity to complete both a Mohawk College diploma and a Laurier degree in a total of four years. Mohawk College is on the move, and so are its graduates, with 92 per cent employed within six months of graduation.



QUICK STATS

WEB SITE: www.mohawkcollege.ca

CAMPUS: Learning Campus, Stoney Creek, Ontario; Mohawk-McMaster systems for applied Health Sciences, Watermark, Brantford

ENROLLMENT: 10,000 full-time, post-secondary students including 40,000 co-enrolled students, 40,000 Continuing Education students

FINANCIAL: \$14 million, 140 full-time faculty

TUITION: Fees: \$2,500 (including auxiliary fees). Tuition fees for International Students: \$50,000 (including auxiliary fees)

CONTACT INFO: Campus Information Dept., 905-575-1212

Admissions Phone: 905-575-2000

On-Campus Housing: 905-575-2292

ON-CAMPUS HOUSING: 543-6581 (1100) Student Residence

FINANCIAL AID: \$1.5 million, and more of OSAP

COMPUTER ACCESS: Open access internet web stations. Students have selected access to the Internet from any computer attached to the College network.

MOST POPULAR PROGRAMS: Year 1, Tech Worker, Social Services Worker/Entry, Art & Science, Law & Society, Medical Medical Sciences, Nursing, Public Foundations

CO-OP EDUCATION: 33 programs with a co-op component

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Transfer agreements. Articulation agreements exist with universities throughout Canada, the United States and around the world. Collaborative programs: Brock/Bachelor's Honours Degree (McMaster University and Conestoga College); Medical Radiation Sciences Diploma Degree (McMaster University September 2004)

Niagara College

PUTTING STUDENTS FIRST

Niagara College has much to be proud of—consistently ranked high in student satisfaction, home of the renowned Niagara Culinary Institute and Canada's first and only teaching winery, and more than 70 quality programs. Our vision: Enriching lives and fulfilling dreams by preparing students to pursue and achieve career success.

You'll enjoy the community atmosphere of a modernized and collect in the heart of setting of the Niagara Peninsula. Parks, forests, restaurants, wineries, hiking trails, and Niagara Falls are all just minutes from your doorstep. No matter which program and campus you choose. Small classes and caring staff and faculty continue to provide you with the help you need to succeed. And once life is more than books and learning. Niagara's Student Advisory Councils make sure your academic year is filled with opportunities to socialize at the student centres and pubs on campus, and enjoy a wide variety of activities throughout the year.

Both the Welland and Glendale campuses boast new student residences, putting you just steps away from various college services such as the Learning Resource Centre, cafeteria, Computer Centre, Campus Store, athletic facilities and the student pub and eatery. Extensive off-campus housing is also available.

We now offer two new degree programs in the areas of Hospitality Management and Photonics that add an exciting new dimension to our 60 post-secondary and 12 post-graduate programs in the schools of:

- Business and Entrepreneurship
- Communications and Information Technology
- Environment, Horticulture and Agriculture
- Health and Community Studies
- Hospitality and Tourism
- Integrated Manufacturing and Skills Training
- General Arts and Science, and
- International Education

Plus, with more than 70 programs to choose from, as well as numerous apprenticeship and skills training opportunities, you'll find the education you're looking for at Niagara College. Niagara prides itself on developing programs first, then in re-evaluating, ensuring students to work in exciting jobs around the corner and around the world. Visit our Web site, give us a call, or come for a tour.

We are Niagara College Canada. Join us!



QUICK STATS

WEB SITE: www.niagaracollege.ca

CAMPUS: Welland and Niagara-on-the-Lake (Niagara)

ENROLLMENT: Full-time: 6,000; Part-time: 15,000

ADDITIONAL: Full-time: 250; Part-time: 450

TUITION: Diploma programs: \$1,381.96. Post-graduate programs: \$2,802.32. 3000-3000 Degree programs: \$4,000

CONTACT INFO: InfoCentre 905-725-2211, ext. 1554

E-mail: info@niagaracollege.ca

COMPUTER ACCESS: Visit the residence Web site or e-mail: residence@niagaracollege.ca. Call 905-725-2200 or 905-725-2211, ext. 1490 (Welland), ext. 2009 (Glendale)

FINANCIAL AID: \$2 million available in support in the form of entrance awards, bursaries, scholarships and on-campus employment opportunities

COMPUTER ACCESS: 1,700+ computers in lab and classrooms with Internet hook-up located throughout the college, choice of PC or Mac software. All students have campus accounts web access to email, Internet and wordprocessing software

MOST POPULAR PROGRAMS: Child Training, Culinary Management, Training, Winery and Viticulture Technician, Police Foundation, Forensic, Social Work, Broadcasting, Design, Journalism and, 1900-1900 International Child Management, Bachelor of Applied Business (Hospitality Operations Management)

CO-OP EDUCATION: Co-op training 20 co-op programs in a variety of areas, plus opportunity for co-op programs

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Niagara College has developed many articulation agreements with universities and colleges in Canada and around the world. Check the college Web site for details.

MOHAWK
COLLEGE

Seneca College

TRANSFORMING YOUR FUTURE

Seneca College is a national leader in applied education. In addition to leading-edge diplomas, post-diploma and certificate programs, Seneca offers four bachelor degree programs.

Seneca students receive the academic foundation, workplace experience and hands-on training on state-of-the-art technology required to meet the current and future needs of employers in the global marketplace.

As the largest college in Canada, with campuses throughout the Greater Toronto Area/York Region, Seneca's size and diversity give students the advantage of numerous partnerships with industry leaders, the latest computer technology and extensive student services.

Leading areas of study include biotechnology, business, computer studies and health sciences. Seneca's accounting and finance, aviation, electronic engineering, fire protection, international business and marketing, and 3-D digital animation programs are recognized nationally and internationally.

Seneca offers a variety of class sizes and methods of teaching—from in-class lectures and online learning to co-op and field placements. Students experience challenging and innovative diploma, post-diploma and bachelor degree programs geared to more than 260 real-world careers in applied arts, business, health sciences and technology.

Seneca's bachelor degree programs provide education unavailable in Ontario universities and combine practical hands-on experience along with a solid theoretical foundation in specialized areas. Four bachelor degree programs are being offered by Seneca this fall: the Bachelor of Applied Business—Financial Services Management, the Bachelor of Applied Technology—Flight Program, the Bachelor of Applied Technology—Integrated Environmental Site Remediation and the Bachelor of Applied Technology—Software Development.

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Seneca College is committed to creating a dynamic, state-of-the-art learning and working environment, offering excellence in education, and building strong relationships with its students, partners and community.

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Sheridan's reputation for excellence is based on the success of its diverse program offerings, from Animation to Music Theatre to Business, to Mortenson Teacher Education, Information Technologies Support Services, Mechanical and Mechatronics Engineering.

In 2003, Sheridan introduced four bachelor degree programs in Animation, Business, Athletic Therapy, and Information Systems Security. These new degrees are value-added, blending theoretical knowledge and critical thinking with hands-on, practical learning to fully prepare you for the career of your choice. Sheridan will introduce additional applied degree programs in the next few years.

September 2003 saw the expansion of the Trafalgar Road Campus in Oakville with the opening of a new wing, housing the Sheridan Elder Research Centre, a joint program (with the University of Toronto in Mississauga) in Communication, Culture & Information Technology, now studies for Sheridan's Music Theatre—Performance and Technical Production programs, as well as a digital technology business incubator. Sheridan's Dana Campus in Brampton is also growing, with the creation of a Centre for Advanced Manufacturing and Design Technologies projected for 2008.

Sheridan offers over 100 post-secondary and graduate certificate programs that prepare you to successfully launch your career. With an 88 per cent graduate employment rate, 91 per cent employer satisfaction, and 42 programs with 100 per cent graduate employment, Sheridan offers an exceptional education. Add the resources of a Career Centre at two campuses devoted to helping students launch careers, two libraries, two residences, two student centres, athletic facilities and a dynamic campus life, and Sheridan offers a fulfilling academic experience.



QUICK STATS

STUDENT 10,000
EMPLOYERS 1,000+ (including IBM, Microsoft, and Apple)

STUDENT BODY 10,000 full-time, 40,000 part-time

STUDENT 10,000 full-time, 40,000 part-time (including auxiliary fees)

STUDENT 10,000 full-time, 40,000 part-time (including auxiliary fees)

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Iran | BY JONATHAN GAYENHOUSE



ANGEL OF REFORM

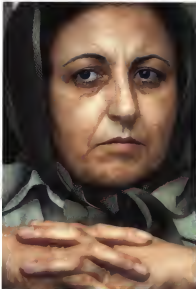
Shirin Ebadi was already a symbol of hope and resistance. Now thousands of Iranians are counting on her Nobel Peace Prize win to help usher in change.

TRAFFIC on the road to Mehrabad airport had been gridlocked for hours, so people simply abandoned their cars and continued on foot. By the time the plane touched down, 20,000—the majority of them women, dressed in white instead of the government-mandated black head scarves—were gathered outside the terminal. They clashed bouquets of flowers, waved bedsheet banners, sang and screamed her name in cheer.

SHE has been a fearless defender of human rights in a country where that principle is frequently tested.

When Shirin Ebadi returned home to Tehran on Oct. 14, she cried that week because it reminded her how many Iranians feel about the winner of this year's Nobel Peace Prize. It was a welcome fit for a conquering hero.

The outpouring of emotion for the 56-year-old lawyer was about more than national pride. For a populace that has seen its desire for political and social reform too



often dashed or frustrated, she has become a symbol of hope and resistance. Though few in the Western world know her name before the Norwegian Nobel Committee's Oct. 10 announcement, Ebadat has long been a fierce defender of human rights in a country where that principle is frequently castigated as Iran's last female judge under the Shah's regime, she was forced to step down after the 1979 Islamic revolution, when the clerics ruled that women could no longer sit on the bench. It is a decision they have undoubtedly regretted.

As an attorney who specializes in the cases of dissidents, women and children, Ebadat has

EBADI represented the families of the writers and intellectuals who fell victim to government-backed hit men

emerged as a major thorn in the side of the authoritarian Islamic years. She represented the families of the writers and intellectuals who fell victim to government-backed hit men. After the 1999 student demonstrations in Tehran University, she distributed

To avoid the wrath of the regime, Ebadat is staying out of the spotlight for now

a videotape linking hardline conservative politicians with the Islamic vigilantes who beat and murdered several students. That earned her a stint in solitary confinement at the notorious Evin prison, just the most recent of several incarcerations. Now, she has taken up the case of Zahra Karami, the Canadian-Iranian photojournalist who died in custody last summer after being arrested for taking pictures outside that same jail.

In the weeks since the Nobel announcement, it has been a delicate balancing act for the diminutive Ebadat. Her every move and utterance has come under scrutiny. Hard-liners have criticized her for not wearing a hijab as she celebrated her peace prize with others. After she was pictured on television shaking hands with a man last week—something that is technically forbidden, but common practice—religious students demonstrated against her. Conservatives are clearly perturbed by the international attention being focused on the country's human rights shortcomings, but even reformist President Mahmoud Khatami has found it necessary to keep Ebadat's name out of his public statements. "It is an occasion to offer his congratulations to 'the world's every leader in the world's biodiversity,'" one political commentator joked, he dubbed the peace prize "not very important" compared with other Nobel awards like those for literature and chemistry. "This award is given more to the field of political considerations," he complained. Although Ebadat has been careful to say repeatedly that she is looking to no reform the system from within, not least it drives from the outside, the pressure on her is clearly increasing, in the dispatch by toward the official Nobel ceremony in Oslo on Dec. 10.

Media's requests for an interview were politely acknowledged by both her office and government officials who are trying to limit her exposure to the foreign press. In the end, the only way to arrange a chat was to make an unannounced visit to her home in an upscale north Tehran neighborhood, late one afternoon.

The basement office she runs her practice out of is simple, unadorned, and, most notably for Iran, entirely staffed by women. Wearing a white hijab, and sitting behind a large, paper-covered desk, with her heavily bandaged right foot propped up to one side

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Iran >

(Zohdi recently fell, breaking a toe and badly twisting an ankle, she spoke through a translator about her Nobel win, Zohdi Kaseini, and her plans to visit Canada.

Was the Nobel committee making a political statement when it chose you as the winner of this year's peace prize?
I've never thought of the Nobel Peace Prize as having a political dimension. To be honest, I always thought that maybe one day I would win this award, perhaps when I was 80 years old. So clearly that my grandson would have to go upon the podium and collect it for me. Which is according to me what I want it 30 years before I was expecting it.

But do you think the committee was trying to send a message to Muslim women?

Yes, I think they were underlining the fact that the status of women in Muslim countries is unacceptable, and passing the Muslim feminist movement. It should encourage women in Islamic countries to fight even harder for their rights.

Are you comfortable with being a symbol of female dissent?

I'm never in a hurry to myself as a symbol. I'm just one of the many who have joined the movement. There are lots of people who are more active than I am. And it's a movement that's not just one person, it's destined to last. Fortunately, the push for women's rights in Iran is much broader than that—60 percent of our university students are now women. We need laws that reflect that reality, laws that are suitable for an educated, modern society.

There has been a lot of media of the fact that you weren't wearing a headscarf in Paris last weekend, on the day you learned you had won the prize, or that you had been photographed shaking hands with men. Are these the real issues for women in Iran?

According to our laws, all women in Iran, Muslim or non-Muslim, must wear the hijab. I'm a lawyer, I respect the law, so when I'm here in Iran, I wear a scarf. But these women have disagreements. There are lots of laws that discriminate against women in the country and we want to change them. For example, the death benefit for a woman is half of that for a man. Men can divorce their wives at will and they remain outside of the children. Men can have as many as four wives. It

AFTER A VERY BRIEF SPRING, JOURNALISTS ARE FEELING A CHILL

"I used to work at a paper on that street," as Iranian journalist friend told me as we had just walked through Tehran's downtown. "Then it was closed down. I found a job at one on this street block coming up." After a minute or two of silence, he looked off the location of another or employer who was forced out of business. Then, a kilometer later, one more for good measure. My friend told that old I selected him many years ago those moves took "About six months," was the answer.

Newspapers and magazines flourished in

stead (there is no home delivery in Tehran) has special sections for politics, local news, sports, arts and philosophy. One of its crowd of offices features a large poster of Hafez's poetry and the website, it's easy to see evidence that the walls that have isolated Iran for the past 25 years are being dismantled brick by brick. In the editor-in-chief's office at another news daily, *Shahrooz Khatami's* first entertainment news page, the walls are covered with the front pages of past editions. Each features a full-color photo of a movie star.



Many of the papers these Iranians read for news have disappeared from the scene.

Many journalists. My ex-husband, just mentioned to the next world as those who gave particular advice, however, found their career paths drastically shortened—sometimes by fines and jail sentences, or bludgeoned, physical reminders to be the line between the journalists and the Islamic regime, either by police or the Islamic vigilante group controlled by hard-liners.

Still, for its pay and less respect, reporters, editors and writers continue to push the envelope. At one of the newest, and bravest, non-foreign newspapers, *Shargh*, I met the young newsroom staff—over half were women—who got out so early they designed editors a week, taking turns at three computers. The paper, which sells 50,000 copies a day at the news-

stand offers a half-page on Iran's reform in the *Mehr* Revolution, comes from Queen Tashmeh's *Kaf* and *Qaf* Cloney, Robert O. Hens, Pierce Grossman as James Bond. The paper, which has been publishing for six months, is printing 16,000 copies a day and normally sells out by noon. Popular fight, but still a shadow of its former self. "We are facing lots of lines and borders with the government," editor Masoud Soudani told me. "Things are a little tight here, sometimes." J.G.

opera, et cetera. You tell me, do we have time to worry about hitachi and honda bikes?

It has been reported that you have taken on the Taha Kasefi case. What role are you going to play?

Zahra Kianersi's mother came to my office before I left for Paris, and asked me to represent the family's interests. But I haven't been through the case in detail yet, and I'm not ready to show my hand. At the moment, it's like a ping pong match between the industry and the parliament, with both sides of information looking

As an Iranian, I'm strongly back and watching now, but I'll be personally involved. As an Iranian, I'm deeply saddened by what happened. Zahra Khatami came to Iran to take photos and help reveal the reality of what is happening here. But her death has exposed even more confused truths.

I'm going to do my best to drive the course in that direction. That's why I'm asking for the ping pong to end. I hope that the negotiation will satisfy everybody involved. And I hope that the truth will come out. But if, despite all of our best efforts, that doesn't happen, we will find some other way.

SHE HAS been careful to say that she wants to reform the system from within, not tear it down from the outside, but the pressure on her is clearly increasing.

[Thou's teacher is having English.] My
teacher, now, is studying in Montreal.

At McGill University?

Yes, she received a degree in telecommunications at Shah University in Tehran. Now she is doing her Ph.D.

Will you be coming to Canada to visit her?

I have some institutions from Canadian universities, and many in Europe. I have to

arrange all of this. I hope I will go to Canada. My daughter says it will be cold. And she tells me that there is an obesity near Montreal.

Conclusion

Yes, she sent me some pictures from there and she says it's wonderful. If you come here, she says, we will go. I will make it.

One last question. What has the situation been like in terms of your work since you won the prize? Are you getting increased pressure from the authorities or other people?

[Hudnuth goes back to Farsi.] "I'm doing all of the things that I was doing before, but with even greater effort. The prison has shown me that I'm on the right path. Now, I have all these visitors and journalists coming by, and I'm waiting for this to end so I can get back to work. I was a defense attorney before this happened, and I'll continue to be a defense attorney. Because

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Then the real battle began. With all wisdom gone from my mind, the only response I usually have: tucked deep in the corner of my mouth, I utter fragments of

types of treatment and joy flooded my mind. I began to realize how my body naturally resonates what I'm thinking. One is a memory of a combination with me set my lower back on fire. Backs small of my wife's hair tend are beautiful of sexual energy.

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its light. My body-wound and other
the pain-vibrated it all seemed to
Therese over I returned to the
...and ...

back into my day-to-day life. A lot of that had dried, and for years I'd kept it. There's time to figure it all out. The secret word is *choice*.

TABLE 1. Continued

RECEIVED 1 APRIL 2008

NEVER A DULL MOMENT

Both thoughtful and funny, Chrétien was great to work for, recalls PETER DONOLO

IT WAS the early spring of 1993. Kim Campbell had just announced her candidacy to lead the Conservatives and was banking in the glow of effusive media coverage. A lot of Liberals—including the staff of their Opposition leader Jean Chrétien—were getting pretty nervous. During his daily Question Period briefing one afternoon, our boss could sense our concern. As his office door on his way to the House of Commons, Chrétien turned to us and said: “The problem with you guys is you worry too much. Look at it this way:

we’re either going to win this thing—and we’re going to have a hell of a lot of fun trying.”

More than any other, that moment sums up my eight years—two in opposition and six in government—as Chrétien’s director of communications. It demonstrates the tremendous optimism that has made him the most successful politician of his generation—and, above all, his sheer joy in the game. Not just doing the job, but “having a hell of a lot of fun” in the process.

The unforgiving optimism: The jaunty readiness to rise up. The skill at boiling a situation down to understandable, causal terms. In fact, with his direct style and notable lack of pomp or anger, he made the job less a lot easier than it really is.

I’ve witnessed a lot of politicians in my day. I can honestly say I’ve never worked with anyone more even-tempered and more grounded than Jean Chrétien. There’s his basic thoughtfulness. He emphasizes open-mindedness in government. He doesn’t like to keep anybody waiting, regardless of where they stand in the pecking order. And in any experience, he wasn’t surprised when others failed to observe what he calls his “politeness of process.” At briefing sessions with the PM and other first ministers during Team Canada trade missions, Premier Ontario premier Mike Harris would routinely sneeze in 10 minutes late. I always felt that was his way of getting a

leg in at his federal opporess moment.

That sense of courtesy and proportion permeated Chrétien’s relationships with senior staff. He didn’t feel he “owned” his staff or should expect them to be at beck and call at all hours. Nor did he expect his staff when things didn’t go well—something more common than not with most political leaders. He never called me following the 11 p.m. news to complain about a story or demand that I take action with the network. Just as he felt a strong family and harmonious private life was essential to his own performance and balance, he believed the same was true for his staff. In preparation for an upcoming parliamentary session one fall, a meeting was scheduled between the PM and two or three of us. This was one session where the boss was running 45 minutes late, due to an unforeseen problem. That scheduled lunch with my oldest child, who was finishing his first week of school, with the reasonable expectation that our meeting would be over in plenty of time. As it worked out, I started packing up my papers and notes about two-thirds of the way through. The PM asked just exactly where I thought I was going. Shockingly, I explained my commitment to my daughter. His response: “Good for you. You have your priorities right. Don’t worry about this, we can finish it up later.”

He understood the importance of family because family always came first with him too. His time with his wife Alice was always

a priority to him. As a rule, for example, he would go home for lunch with her every day. Mrs. Chrétien herself was always a source, clearing processes for the PM—and clearly the love of his life. I particularly recall riding with them to the National Arts Centre in Ottawa for the leaders’ debate in the 1993 election. The three would have been anonymous—after all, these debates are the make-or-break points of a campaign campaign, and parties don’t hand out front-row seats. There we were in the back seat of an RCMP-driven vehicle, one sitting in the middle between Jean and Alice Chrétien, in a sense that could only have looked like a blue-

jean of a kid and his parents on route to a summer. Tapping off the atmosphere were their light-hearted reminiscences of concerts they had enjoyed at the NAC through the years. You’d never have guessed he was moments away from a decisive election event.

That’s the way he approached even the most difficult issues—as a guy who was grounded and put things in perspective. During one particularly raucous controversy over concerns he made regarding the GST, a number of us were pulling out our hair, trying to get him on script. I’ll never forget the PM’s reaction as I pleaded with him to take a certain course of action. He chuckled and

said, “If you think this is bad, wait till we really get in trouble!” He related dealing with controversy in Question Period. And—such the notable exception of the women’s attacks from Quebec separatists and misogynists—he never took personally any of the nastiness directed his way from across the floor.

I think one reason I’ll always look at perspective is his sense of humor. His self-deprecating jokes, especially about his habit of his second language, are well known and appreciated by the public. But his ability to see the lighter side in the human condition has served him well. He never let the mood around him get too somber or serious. And he has a witted ability to tease. I recall one session when a colleague and I, neither of us exactly slim and bony, were talking with the prime minister. “You guys love to eat,” he said. “If there were ice or food on the table, you guys would go for the food!”

That just always made him relax and open serious conversations—ready to try anything. A natural and quite competitive athlete, the PM would readily back a kid’s basketball, jump on a free bicycle or challenge anyone to a game of ping-pong. At a G8 summit in New Zealand, we had made him out of trying to keep him from getting hurt. His adventures extend beyond physical risk. During a fall at a summit meeting in Latin America, the PM dragged a couple of us for a shake with through the densest forest. He asked a particularly greasy hamburger joint and ordered up a burger drenched with mayonnaise and proceeded to wolf it down. Later that day, I asked a local embassy official about the health risks of eating in such places. The response: “There’s no risk at all—except for the mosquitoes. If I make you violently ill!” In fact, the Prime Minister’s case from food seemed more than all his international travels, he was invariably the only member of the delegation who never got sick.

I’ve always felt Jean Chrétien’s greatest strength is his transparency. He’s the same in private as in public. Yes, there may be things about him that aren’t evident publicly: his penchant for classical music, his encyclopaedic knowledge of art, or the breadth of books he reads. But these are not at odds with his public face. Moreover, his unwillingness to say the politically correct or expedient thing was at times maddening, but ultimately served him in good stead. He refused to be programmed. You could never convince him to say or do something



HIS direct style and notable lack of pomp and angst made the job look easier than it really is

The PM (with Donolo, middle) was invariably the only one who never got sick on trips

because a poll or focus group recommended it. In fact, that was always the surest way to run him off a course of action.

The other aspect of this consensus is in the way he treats people. Whether he's talking with a maid at 24 Sussex, the president of the United States, a taxi driver, head of a multinational corporation, high-school kid or Nobel laureate—and I've seen him interact with each of these—he treats people the same way. He doesn't, as so many do, suck up to the powerful and kick down everyone else. He doesn't put on airs, nor do they interact him in others.

One very positive element of that openness is his ability to take straight talk. When I spoke to him, I never had to mince words or beat around the bush. I could tell him exactly what I thought, without fear of how it would affect my status with him. I saw that in the way he treated others. I recall one heated meeting in which he was arguing over a policy issue with a minister and, while still speaking, proceeded to get up, pour a cup of coffee and serve it to his (somewhat surprised) cabinet colleague. The subject was: I'll argue like hell over this with you, but it's not personal, and I want you to feel comfortable challenging me.

WHETHER he's talking with the president of the United States or a taxi driver, he treats people the same way

It won't surprise anyone that I also happen to believe that Jean Chrétien did an amazing job turning around this country and getting it back on its feet. I'll leave that up to others, especially with the perspective of time, to decide. What remains for me is the man himself. His energy. His enthusiasm. And above all, his core honesty, not just in the traditional terms of the word, but in the broader, more material sense of being true to himself. And the chance I had to work for him. For me it was an honour, a privilege, an opportunity I'll always treasure. But even if all, he was right: it was "a hell of a lot of fun."

Peter Davies was Jean Chrétien's director of communications from 1993 to 1995. He is currently executive vice president of The Strategic Council in Toronto.



SCRAPPY FOREVER

A new book looks at the 'anti-establishment man'

IT WAS often said of Jean Chrétien that he lacked vision. Lawrence Martin doesn't argue with that in the second volume of his epic biography of the imperious prime minister now exiting our national stage. Martin rolls out the stock adjectives for Chrétien's governing style: incremental, pedestrian, cautious. This would seem to pose a problem for the author if Chrétien is defined by his predilection for frustratingly small steps, how can Martin wrap up his life in a satisfying big theme? Martin's solution is to anchor the saga not in what Chrétien did, or even what he failed to do, but in his subject's unshakable image of himself as the "anti-establishment man."

This characterization appears on page 1 of *Iron Man: The Defiant Reign of Jean Chrétien*, and the title never rings far from Chrétien's tongue for ordinary Canadians and, even more, his members of elites, elites at every turn. If the fact of opposition in Quebec, it is because interclass snobishness looks down on him. If forces in the Liberal party must have him, they must be big men who want one of their own in charge. Martin attributes much of Chrétien's success to the way he devoted to "blue-collar" values, a lifelong identification with plain folk that eluded, in particular, that other backwoods-to-boardroom prime minister, Brian Mulroney.

This is a story, then, about the politics of

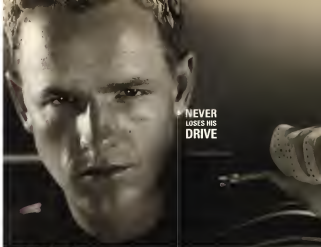
class consciousness. It's of a piece with Martin's first volume, 1995's *Chrétien: The Wolf to Win*, an indispensable account of the PM's climb, from his birth in 1934 as the 18th of 19 children in a Shawinigan, Que., family, to just before he became Liberal leader in 1990. Chrétien's determination was shown as rooted in an underdog upbringing. And he was not the type to forget where he came from. Yet when Martin picks up the thread in *Iron Man*, we might expect the bitterness in Chrétien's scornful view to be outflowing. After all, he has just returned from a lucrative private sector hiatus from politics to run his party—a conqueror of the establishment. But that remains firmly on hold. As, in Martin's account, up to present times.

In *Wolf to Win* Martin uncovered riveting new material on Chrétien's handsomely costly experiences. Undoubtedly, the new volume covers more well-trodden ground. But Martin hushes the familiar faces of Chrétien's glory years in a fast-paced narrative. His assessments of major episodes—the 1995 Quebec referendum, the deficit battle, elections—can feel perfunctory. Martin's strength is in wielding the revealing anecdote and telling quotation, as when he observes how Chrétien relishes taking a shot at Conrad Black. Or how droops on this pious Chrétien made to Liberal MPs when Paul Martin's forces are challenging him. "Don't worry



IRON MAN: In Martin's second volume on Chrétien, the Bearman's class consciousness

JOHN GEORGE



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LOSES HIS
DRIVE

LUKE DONALD, winner of a PGA TOUR title



NEVER
NEEDS A
BATTERY



CITIZEN
ECO-DRIVE

Eco-Drive Sun Power
Powered by light, it runs forever

► SIMPLY UNSTOPPABLE

'A man of the common people'

The galleries were packed last week for the tributes to Prime Minister Jean Chrétien on his final day in Parliament. There was a scramble to find a spot for former deputy prime minister Herb Gray when he arrived late, only to find the seats reserved for guests of the government filled to capacity. The area open to the general public filled up early too, but Janet Davidson, 45, of Pembroke, Ont., a former teacher now working on a youth initiative, was lucky enough to get in with a friend sitting from Winnipeg when a couple of seats came open at the last minute. On her way out after hearing the speeches, she reflected on why she had come and what her thought of the politician whose remarkable four decades in public office were being saluted that afternoon.

I was born in Timonon and grew up in western Manitoba. My parents worked as civilians in the Department of National Defence. My mother was of Icelandic heritage, and she was a politically astute woman. We were raised to pay attention to our country and take pride in it, so I've been watching politics for years and years. When I was 12 or 13 years old, Trudeau made an impact on me. He aroused a lot of passion in people I thought were complacent about politics. He alienated much of the West, but he turned my head.

I can remember Jean Chrétien from the time when he was minister of Indian affairs. Like many of the people who paid tribute today, I recognize his passion for our country. I guess that's why I wanted to be here. We

were unable to get into the gallery immediately, but we got in for the last hour. I was quite moved by it. I was touched by the willingness to put down partisanship and pay tribute to somebody who had passion for what he did.

There's been a lot of talk about him hanging on a little long, but I don't know that he did any direct disservice to Canadians. Maybe he gave us time to reflect on the next step. I filled the way he talked just now about the need for more real dialogue in the House of Commons. I hope they pay heed. I thought he posed a challenge to the whole grandstanding, entertainment side of politics and media. We're so girls and jaded with our politics. Chrétien was, in my opinion, a man of the common people.



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A FOOT IN THE DOOR

A successful venture gives new grads a fighting chance to find work

YOU'VE SEEN the type: Smart, Energetic! Brainstorming with ideas and willing to log long hours for obscenely low pay. Not to mention impressing by a newly earned degree—framed and hung proudly on the bedroom wall. Oh, and one more thing: Unemployed. Know anyone who fits the description? Or do you see a number of this club every time you look in the mirror? If so, you're probably one of thousands of Canadian grads stuck in the Catch-22 of needing experience to land a job, but in need of a job to get the experience. But there is hope—and maybe even success in success—and those dreams and boundless hopes of a future come in the form of an organization that's gifted at getting university and college grads across Canada their all-important first foot in the door.

Career Edge Organization was the country's first Internship job site when it opened in Toronto in 1996. Since then, the not-for-profit outfit has evolved into much more than your average posting board. Its focus is find work placements only for recent grads. While hundreds of participating companies and not-for-profit organizations select interns from a registry of some 12,000 grads, Career Edge remains a key player throughout the process. "We act as the employer," says president and CEO Lucille Joseph. "If an intern isn't getting the coaching or feedback required, they call us. Similarly, we're the last company they contact if an intern isn't performing up to their part of the agreement."

Grads need all the help they can get. Statistics Canada doesn't break down its youth unemployment data according to education, but as of September, 10.9 per cent of Canadians aged 17 to 29 couldn't find work—three percentage points higher than the overall unemployment rate. Aware of the problems facing grads, a group of 28 corporate leaders came up with the idea for Career Edge. Over the past seven years, it

has given 5,800 young Canadians internships to help them get their careers off the ground. While there are job postings in nearly every conceivable industry (in all, more than 850 companies and organizations have made hires through Career Edge), offering stints of six, nine or 12 months), about half are in business or technology-related fields.

For Christa Welton, discovering Career

Edge couldn't have come at a better time. After earning a degree in computer science from the University of New Brunswick in Fredericton last spring, Welton moved to Halifax with her boyfriend and could find work only via call centre, making just \$9.50 an hour. "It wasn't exactly the type of job I expected after graduation," says Welton, 24. "But I needed to make money and the



HUNDREDS of participating companies select interns from Career Edge's registry of some 12,000 graduates

Welton landed at a chance to use her skills in a 12-month job placement in Halifax



Muscles, bones and joints work together to protect the lead.



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high-tech firms weren't hiring," but before leaving New Brunswick, she'd discovered the Career Edge site while surfing the Web one evening. She subsequently applied for two placements in her field, three months after moving to Nova Scotia, she landed a 12-month spot as a project associate with Clear Picture Corp., a Halifax tech firm that designs and analyzes Web-based human resource material. "Even if there isn't a full-time job available with Clear Picture when my placement's over," she says, "the experience looks great on my resumé."

While Career Edge provides access to some much-needed personal experiences, those looking for a fat paycheck need not apply. All interns currently earn a stipend of \$1,500 a month, no matter what the job or its location (although some companies do give housing and top ups). "It certainly doesn't allow you to live the high life," laughs Adrienne Morgan, 26, a business analyst with Shell Canada. "You have to live like a student for one more year, but the experience gives me more than I had made off." A Career Edge intern at the Calgary-based firm three years ago, Morgan went full-time three months into her 12-month placement and has been there ever since.

More than 88 per cent of Career Edge grads have found full-time employment in their chosen field within three months of their placement, over half of those with the company where they interned. Joanne Kitting, one of Career Edge's only interns, has moved quickly through the ranks in the Toronto offices of the Royal Bank of Canada. "My experience as an intern completely changed my life," says Kitting, who's now 33 now works as a manager of strategic programs with RBC. "I was able to work with so many great people, and still see what I learned as an intern in my current job."

Unlike many other internship programs, Career Edge associates only with companies that guarantee a challenging placement experience that equals that of an entry-level job. Terry Pouch, who is in charge of staffing at General Electric Canada Inc., says his company has taken on 188 Career Edge interns since 1997. "It's not a make-work project," he says. "We don't hire interns to do photo-copying or filing. We hire them for jobs they're going to get value from, and that we as the employer gain from as well."

In fact, Career Edge offers major benefits to the business involved. For smaller com-

STUCK IN A RUT

The percentage of unemployed Canadians aged 17 to 23 is on the rise.



SOURCE: STATISTICS CANADA

panies and not-for-profits, the greatest advantage is the ability to hire highly skilled workers at a cheap rate. Career Edge can also help a firm's bottom line by saving it time. "We posted a job on their site and received 40 applications in the first 24 hours," says Vivian Younsie, human resources consultant with Hydro One, Ontario's electricity utility. "It can really cut down on recruiting time."

Another big backer of Career Edge is Bruce Lumsden, a member of its board of directors. As director of co-operative education at Ontario's University of Waterloo, he knows a thing or two about internships. The Career Edge system has struck a chord with the business sector, he says. "It offers something different, of relevance as price industry can afford," says Lumsden. "Many universities and colleges have co-op and internship programs, but I've never seen an outside party get involved like this."

The model seems to be working. Compared to the first 10 months of 2002, Joseph and her staff have seen a 45 per cent increase in the number of placements this year. And while it's impossible for the small outfit to solve Canada's youth unemployment problem, it has become a welcome site for legions of the young and jobless.

MORE than 80 per cent of Career Edge grads have found full-time jobs within three months of their internship

BACK TO THE BASICS FOR JOB HUNTERS

Sure, that part-time job stacking grocery shelves served you well, but now that you've graduated it's time to move on. Here are 10 ways to help get that highly trained foot through an employer's front door.

1. **MAKE A CHECKLIST**—Decide what you want to do, with whom and when.
2. **GO SURFING**—In addition to general job sites, there are many company sites that post their own openings. But a warning: don't base your entire search on the Web.
3. **EVERYONE'S A SOURCE**—Since many jobs are never posted, the old saying "It's who you know, not what you know" may be truer than you think.
4. **HOT JUST CHAP LABOUR**—While they often feel like that, co-ops and internships are a great way to augment your résumé.
5. **KEEP IT CLEAN AND SIMPLE**—Your resumé has to be tight and relevant. That means one page. Employers don't have time to read your life history, so leave out your glory days as a babysitter. And remember, a single typo will put an end to your chances. Show drafts to as many people as possible.
6. **EDUCATE YOURSELF**—Research the company and the entire industry, as much as you can. It's great interview prep.
7. **PREPARE, AND THEN PREPARE SOME MORE**—Have friends and family conduct mock interviews. Practice won't make perfect, but it's a lot better than the alternative. A blank look might be attractive on fashion models, but it's death in front of a prospective employer.
8. **LOOKING GOOD IS ONLY HALF THE BATTLE**—Once you get in the hot seat, look sharp, act straight and smile. But beyond the obvious, answer questions by using examples on how you've dealt with problems.
9. **DON'T BE A STRANGER**—Companies won't come looking for you after you leave the building. Don't badge, but follow up. If you do it well, you'll appear to be proactive instead of a pest.
10. **BEING COURTEOUS NEVER HURTS**—There's a reason your parents made you write a thank-you note when old Aunt Gertrude gave you that ugly sweater for Christmas. Manners count. **LL**


Imagine This:

A future where companies and communities are connected more than ever, working collaboratively to find new ways to address social challenges.

15 leaders from the worlds of business, charity and universities look ahead to what's possible with a new spirit of community

CORPORATIONS THAT CARE

A growing number of Canadian businesses are taking the concept of corporate social responsibility far beyond simply making charitable donations or sponsoring local events. Through initiatives such as the Imagine program, they are partnering with governments, non-profit organizations and front-line volunteers to address today's social challenges and make lasting contributions to their communities.

Imagine  A New Spirit of Community
Un nouvel esprit communautaire



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Michael Saba - BCE Inc.
President and CEO

"We can build better communities, stronger communities and, frankly, better places to operate business. This opportunity we have is compelling."

"We can build better communities, stronger communities and, frankly, better places to operate business. This opportunity we have is compelling."

Michael Saba,
President and CEO, BCE Inc., Montreal

Saba is referring to the benefits of exercising something known as corporate social responsibility. It's a term given to a corporate mandate to adhere to ethical, environmental and sustainability sentences, and share resources with the voluntary sector. However, Saba likes to put it another way: "The

word I use is 'citizenship,'" he says. "If you're a citizen, you're involved. Corporations are also social institutions. What they do and how they act and the role they play in the community they operate in is important."

Like no single corporation can transform Canada's social capital on its own,

national program that promotes corporate giving, volunteerism and partnerships between the corporate and charitable sectors. Today, Imagine is working with 591 companies on a new agenda for corporate citizenship designed to dramatically increase the contribution of business to community-building.

A KEY MOMENT IN TIME

"We are at a very interesting moment in Canadian history," says Chris Penney, Imagine's Director. "We have an opportunity now to build a much more productive relationship between business, the voluntary sector and government."

Our goal is not simply to drum up more charitable donations; it's to strengthen the role of business in community development." Imagine aims to help forge a partnership that benefits communities, companies and non-profits and addresses today's social challenges.

says Saba. It needs to be linked with partners in the voluntary sector and to build connections with those on the front lines of community work.

This is where Imagine comes in. Launched in 1998 by the Canadian Centre for Philanthropy, Imagine is a

"Our goal is not simply to drum up more charitable donations; it's to strengthen the role of business in community development."

Chris Penney
Director, Imagine



Imagine 2003 Spirit of Community Partnership Award Winner
The Business Community of Saint John N.B.
Program: The Saint John Business Community Anti-Poverty Initiative

Scoring destitute people on the street with their hands out for coins was a turning point for Bill Gale.

"This is not fair," the retired bank executive told his friends six years ago. "There's something wrong with our system."

Beginning with a gathering of 45 local business leaders in 1997, Gale founded an initiative to give it a new way, by encouraging the Saint John business sector to take the lead in serving the community.

"We didn't go to government," says Gale. "We said, 'this is a business community project.'"

Their initiative strikes at what Gale calls "the roots of poverty," by giving strategic and material support to community agencies that helps organize, but doesn't run. The alliance now has the participation of about 100 community leaders, and has helped do things like find housing for single mothers, educate children, conduct job training and a myriad of other efforts.



Chris Penney - Imagine
Director

THE PUBLIC DEMANDS MORE

Public opinion clearly supports this kind of relationship between the corporate world and the community, says Chris Coulter, Director of the Corporate Social Responsibility Ministry, KPMG, International Ltd., Toronto. "Canadians have some of the highest expectations of business in the world," says Coulter. "Whether as consumers, employees or investors, a significant number of Canadians are now willing to either reward or punish companies based on their social performance."

An increasing number of CEOs as well as this new equation. As Gwyn Morgan, President and CEO of Calgary-based oil and gas company EnCana says, "True success is measured through both the bottom line and our behaviour."

But the notion of corporate social responsibility has to begin from the inside before it can reach out into the community, suggests Gordon Noon, President and CEO of RBC Financial Group. "Business must ensure that our own houses are in order first, and operate in an ethical responsible way so that we provide a solid return for our shareholders."

Individually, companies are being called on to publicly demonstrate their commitment to corporate citizenship, says Scott Miller, Vice-President for Government and Community Relations at TD Bank Financial Group. "There is an increased

"A significant number of Canadians are now willing to either reward or punish companies based on their social performance."

Chris Coulter
KPMG, International

push for transparency from both outside and inside the corporation," he says. "Large companies are going to need to tell their stories more and more."

Collectively too, businesses are being challenged to collaborate to express their common values to a broader community. "Companies need to take action together as well as individually, to meet the demanding test of public expectations," says David Stewart Plattman, Executive Vice-President of the Canadian Council of Chief Executives, Ottawa.

"I think that in a deep way Canadians understand the value of community. These are not simply philanthropic values. We care about creating not only individual success but mutual success."

Eric Young,
President, EYE

Corporate citizenship goes beyond obeying rules and codes of conduct



This is why collective initiatives such as Imagine are likely to become even more important in the years ahead," he says.

Eric Young, President of EYE, a Toronto-based agency that specializes in creating and developing strategies and campaigns to promote social change, agrees. "I think that in a deep way Canadians understand the value of community," he says. "These are not simply philanthropic values. We care about creating not only individual success but mutual success."

IMAGINE OFFERS GUIDELINES

To achieve this success, says Imagine's Pinney, companies, governments and community agencies

Imagine 2003 Spirit of Community Partnership Award Winner:
TELLUS & The Decades We Care Education Society of Alberta
Program: The TELLUS Learning Connection

The goal was to provide an online educational resource for Alberta teachers. The result was the TELLUS Learning Connection, a Web portal that gets three million hits a month from around the world.

"Our teachers were eager to learn how to use the Internet," says Michele Mulder, President of the Alberta School Boards Association, one of five partners in the project that was designed to provide teachers with internet training. These included Alberta Learning, the Alberta Teachers' Association, the College of Alberta School Superintendents and TELLUS Corp. More than 15,000 Alberta teachers have now been trained through the Learning Connection portal, while nearly every educator in the province is linked to its online community. "With TELLUS, this was a meeting of minds," says Mulder. "We saw TELLUS benefiting by being aligned with government and private stakeholders."



Help kids become whatever they want.

Celebrate TD Canadian Children's Book Week. November 1 to 8, 2003



Written by
Margaret Frawley
Illustrated by
Lorena Piloni

When you encourage children to read, you nourish their imagination. And you give them the skills to make their dreams come true. That's why each fall TD Canadian Children's Book Week celebrates the joy of reading.

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Nancy Neuman, Chair
of the Canadian Centre
for Philanthropy

companies and a code of fundraising ethics for charities.

"This is a two-way street," says Peter Broder, Acting Vice President of Public Affairs at the Centre for Philanthropy. "While business may face a bigger challenge in terms of accountability, charities also have to do a better job of demonstrating their accountability to donors and the community."

Establishing a better framework for working together can unleash innovative new approaches for addressing social challenges.

Nancy Neuman is a powerful example of how social activism can breathe new life into a community. Her ability to get the right people to the table helped address both social and economic problems in an economically depressed area of Montreal. "I worked in welfare and housing rights," says Neuman, President of *Chambre de l'économie sociale* (Social

"Addressing community issues moved from a dynamic of charity to a dynamic of partnership."

Nancy Neuman

President of *Chambre de l'économie sociale*

Economy Working Group). But I got fed up with asking other people to solve the problems that I saw and experienced first-hand." Neuman engaged the ideas and skills of the President of the Montreal Chamber of Commerce and the business community to try another approach. Their collaboration resulted in a literacy and skills training program for workers in area factories. These workers, once opposed to technological change in their workplace, em-



Engage 2002 Spirit of Community Partnership Award Winner. CN & the Safe Communities Foundation of Canada Program: Pulling Together

Private and voluntary sector partners usually seek complementary objectives. This pair uncovered goals that were identical.

"This is what we see at CN as an example of what we can do," says Gail Davis, Director of External Communications for CN in Montreal. "This is truly a partnership."

The Foundation works with towns to help improve safety practices in all spheres of activity. In the same communities, CN runs tracks and trains, and promotes public awareness for safety around these operations.

"CN gets involved at the local level with us and promotes rail safety," says Pat Conway, Foundation President in Toronto.

CN, in turn, offers the Foundation expertise, volunteers, financial resources and in-kind resources, extending its own safety goals into many more communities than it could on its own.

"It's a full circle, a complete package," says CN's Davis.

"This is a two-way street. While business may face a bigger challenge in terms of accountability, charities also have to do a better job of demonstrating their accountability to donors and the community."

Peter Broder, Acting Vice President, Public Affairs, Canadian Centre for Philanthropy

A GOOD INVESTMENT

There's ample evidence Canadians want to work for, purchase from and invest in companies that they see as good corporate citizens.

The investment community increasingly includes corporate social responsibility as a means to assess a company's quality of management, says Michael Jernin, President of Michael Jernin Research Association Inc., a Toronto-based company that consults to institutional investors and financial professionals. "The evidence is very clear that companies that look

at social and environmental issues in a consistent, clear way do better than their counterparts," he says.

"This project had a tremendous impact," says Neuman. "Addressing community issues moved from a dynamic of charity to a dynamic of partnership."

at social and environmental issues in a consistent, clear way do better than their counterparts," he says. "What investors look for, he suggests, is the kind of social involvement that firms lacking live. "It goes beyond philanthropy to where the community is a key stakeholder," he says.

"Stakeholders are more inclined to base investment decisions on factors such as public image, treatment of employees and overall reputation."

Geoffrey MacIsaac, Board Chairman

Vice President, Public Affairs

One example is the partnership between pharmaceutical company GlaxoSmithKline and the Canadian Hospice Palliative Care Association. Together, they created a campaign called "Living Lessons" to raise awareness of how hospice palliative care enhances quality of life for the terminally ill. The partnership has produced educational resources for caregivers and health-care professionals, and helped shape public policy.

Such lasting partnerships do contribute to the value of a company, says Geoffrey MacIsaac, Vice-President of Public Affairs at GlaxoSmithKline Canada Inc. "Stakeholders are more

"Companies that look at social and environmental issues in a consistent, clear way do better than their counterparts."

Michael Jernin, President, Michael Jernin Research Association Inc., Toronto

inclined to base investment decisions on factors such as public image, treatment of employees and overall reputation," he says.

These examples demonstrate the positive role many corporations play in shaping Canada's social landscape.

"I think we're still in the very early stages of this evolution," says BCE's Salva. "It's a start. I think what I imagine has to do is go out and shine a spotlight on that." ■

Give with confidence.



Canadians are generous people when it comes to supporting worthwhile causes – but it's important that they can trust the integrity of the organizations they fund. Which of the many thousands of causes are indeed worthwhile?

The answer is only as trustworthy – but there ARE a few red flags. Now there's a new way to tell the difference.

The Canadian Centre for Philanthropy has introduced a logo linked to its Ethical Fundraising and Financial Accountability Code. Only charities which meet straightforward standards – both in the selection of money and its use – may display the logo.

When you consider giving to a cause, be sure to look for the Ethical Fundraising logo pictured here. It's your assurance that your money will be honorably solicited and carefully spent.



For further information, please visit the Canadian Centre for Philanthropy website at

www.ccp.ca

EDUCATING TOMORROW'S BUSINESS LEADERS

Business schools play a key role in ensuring new business leaders are engaged corporate citizens.

Anyone with doubts about the dramatic change taking place in the corporate world can learn a quick lesson from Lissa Korba and her business school. A MBA student at York University's Schulich School of Business, Korba is specializing in sustainability. She believes that managing the social and environmental impacts of business will be critical to the success of any organization in the future.

"There is a strong business case for this approach to business," she says. "This is a real win-win equation, not a tradeoff."

Korba passion for sustainable practices is echoed in schools around the world through Net Impact, a rapidly growing international community of business students who believe that business can create more value for itself and society by

"We're transitioning to what I would call stakeholder capitalism, where companies realize success by aligning their interests with those of all their stakeholders."

Professor David Wheeler,
York University Chair, Ketch Program, Schulich School of Business



Dr. David Wheeler
York University Chair, Ketch Program,
Schulich School of Business

partnering with stakeholders. Professor David Wheeler, Director of the Schulich program, describes this new spirit: "We're transitioning to what I would call stakeholder capitalism, where companies realize success by aligning their interests with those of all their stakeholders." This approach to business education

Which Canadian business schools are serious about preparing today's students to make a difference in tomorrow's world?

Imagine has conducted a national study to find out which business schools are addressing corporate responsibility - and which are doing it best. You can check out the results at our online Business School Resource Centre at www.imagine.ca.

You'll also find great corporate citizenship links and information - from case studies to MBA course descriptions to student organizations and internship opportunities. Essential resources for a new generation of leaders.

SO DO SOME CANADIAN BUSINESS SCHOOLS.

Imagine  **A New Spirit of Community**

Imagine is an initiative of the Canadian Centre for Philanthropy



Take a look at \$100 million in research and development.

GlaxoSmithKline - a Canadian leader in medical R&D - invests more than \$100 million every year in this critical area. These investments cover the full spectrum of R&D, from fundamental scientific research all the way to final-phase clinical trials. All to ensure that Canadians will have the medications they need to do more, feel better, and live longer. Asthma medication, for example, that makes taking a deep breath something to sound off about for this young Canadian.

We know that better medications are just a part of the prescription for the long-term health of our country and Canadians. That's why we established our \$22 million

Painfinders Fund for Leaders in Canadian Health Science Research to create research positions in all of Canada's major medical schools in order to attract and retain leading scientists in our country.

GlaxoSmithKline is at the forefront of the research-based pharmaceutical industry. We work in partnership with federal and provincial governments to fund many research programs, and invest in developing medications for critical therapeutic areas like HIV/AIDS, oncology, depression, diabetes and asthma. We will continue to make major investments in medical R&D that is crucial to the future health of Canadians.



GlaxoSmithKline

TOMORROW'S LEADERS CARE DEEPLY ABOUT COMMUNITY.



All about water...

We salute the Centre for Affordable Water and Sanitation Technology (CAWST).

Calgary-based CAWST shares its technical expertise to help communities and agencies in developing countries manage their own water and sanitation systems. CAWST teaches larger Non-Government Organizations how to train people at the local level in developing countries.

For information on CAWST and upcoming seminars visit www.cawst.org



For more information on EnCana's Community Investment philosophy and our other capacity building programs, please visit our web site under 'Community'

ENCANA

www.encana.com



Ann Swendsen - Centre for Innovation in Management
Executive Director

is emerging at business schools across Canada. Imagine recently surveyed 27 business school deans for an upcoming report on the teaching of corporate responsibility in Canadian business schools. Almost all agreed that the importance of teaching corporate responsibility was increasing. Most felt that it is "extremely important" to include these themes in the curriculum. Leading schools such as the Schulich Business School and the Haskayne School at the University of Calgary are pioneers in supporting programs that get these messages across.

"Our goal is to ensure that tomorrow's business leaders understand the value of corporate citizenship and engagement in the community," says Agency Tools Program Officer for Imagine: "Business schools have a critical role to play in this regard and we are working with them to promote best practices and create resources for students and teachers."

Influential academics like Roger Martin, Dean of the University of Toronto's Rotman School of Business, observe an increasing synergy between the business and voluntary sectors.

"With thousands of Canadian charities seeking corporate help and with increasing public scrutiny of corporate operations, both sectors have to learn how to create partnerships that achieve some of what governments used to do," says Martin. "Corporations have to help non-governmental organizations create a higher quality of life and NGOs can help corporations not only do good, but be seen to be doing so."

Ann Swendsen, Executive Director of the Centre for Innovation in Management at Simon Fraser University in Burnaby B.C., believes these realizations create a mandate for business schools.

"I believe managers need to understand the link between corporate activity and the economic and social aspects of that activity," she comments. "There needs to be a place within a broad range of [business school] courses where that is emphasized."

Young people like Kariba, are, in part, creating the demand that business schools are now responding to.

"What's great to see is that students have flocked to these programs," says Schulich. Whether referring to the MBA program specializing in sustainability "We actually got a higher caliber of students in these programs. There's a virtuous cycle here that is very encouraging."

Whatever notes of idealism may be struck, these students and future leaders are working to ensure that sustainability and strong community alliances will be key competencies of their approach to business management. ■

Imagine 2003 Spirit of Community Partnership Award Winner

Petro-Canada & the Canadian Association of Food Banks
Program: 100% FOOD



The 100% FOOD partnership combines three goals in one program: fighting hunger, creating environmental benefits and generating public awareness. On a local level, 100% FOOD alerts school children and others to collect obsolete like used inkjet cartridges and old cell phones for recycling. The money earned – a spent cartridge is worth up to \$5 – supports food banks for the week. "It truly is an excellent example of what Imagine is all about," says Charles Seiden, Executive Director of the Canadian Association of Food Banks in Toronto. "Petro-Canada gives us moral support, financial support, strategic thinking and strategic planning."

"Companies today really want to be involved at all levels," he says. "In a way, corporations are driven by their workers and people on the front lines. When they do something like this, the whole company feels engaged and enabled."

For more information about Imagine and its programs visit www.imagine.ca

Imagine 2003 Spirit of Community Partnership Award Winner

Microsoft Canada
& Boys and Girls Clubs of Canada
Program: CanTech



Frank Glegg - Microsoft Canada
President

Both organizations shared a mandate to help youth development. So, the world's leading maker of learning tools and the charity that serves 150,000 youngsters fell into step to create CanTech, a network of 95 technology centres at Boys and Girls Clubs across Canada.

"We asked what kinds of things were needed in their organization, and their answer was that there was an absolute need for access to technology," says Paula Knight, Director of Community Affairs for Microsoft Canada.

"This gives youth an opportunity to develop skills they may not have access to at home or in the school environment," she says.

Some 19,000 children a day now have access to a computer thanks to this program, says Carol Davies, Manager of National Communications for the Girls' Corporation. She says, visit their communities to be safe and viable. "I believe they're thinking about these partnerships in more serious ways."

HOW DOES COMMUNICATION GROW A COMMUNITY?

It's simple. Where there's communication, there's community. At a minimum, our business is a community. And corporate citizen, our connection with community partners are focused on real and measurable ways to help them grow. Whether it's our charitable programs, our community development initiatives, or the expertise of our employees, we are committed to enhancing the lives of Canadians and the communities we serve. To find out more about how we grow the community, visit www.bell.ca/responsibility.

Bell

Making it simple

CANADIANS CARE DEEPLY ABOUT COMMUNITY.

SO DO SOME CANADIAN COMPANIES.

Over 550 Canadian companies have pledged their commitment to the Imagine program, internationally recognized for promoting corporate citizenship. Together these companies contributed over 250 million dollars to charitable causes in the last year.

But it's about much more than money. Together, Imagine companies are leading the way – and helping one another learn even better ways – to make a real difference. Not just by giving more, but by doing more. Engaging their employees. Applying their unique competencies to tough social problems. Driving innovation. Developing powerful partnerships at the community level.

These companies recognize the value of community and the invaluable role they can play.

Canadians – and all of Imagine's companies – want to see more businesses playing an active role in the community.

If your company is not part of the Imagine program now, please consider this your invitation to join.

You'll be in good company.

Imagine  **A New Spirit of Community**

Imagine is an initiative of the Canadian Centre for Philanthropy

For more information on Imagine please visit www.imagine.ca or contact us at 416-597-2255 ext. 229

Imagine Photo: Bill Scudlark/Getty



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Columnist | DONALD COSE



STAY COOL AND INVEST

Despite the scandals, mutual funds remain the best choice for many

NEW YORK Since Attorney General Elliot Spitzer is on the hunt again. This time, he's after mutual fund insiders who game the pricing system. His high-profile bugs reacquainted investors into scrutiny. Result: the federal Securities and Exchange Commission and several states have exposed shenanigans and frauds at leading mutual fund managers—and the industry, which had come through the phony excesses of the 1990s largely unscathed, is in shock.

Before getting into the details of these scandals, I must disclose my own status: I am involved in mutual fund management in both the U.S. and Canada, and personally file

reports to regulators about any activities. That said, I derive no satisfaction from the revelations about misdeeds in competitor organizations. According to reports, unit-holders in these fund families have been switching to other funds in protest. That's the way free markets should work: those who abuse the public trust should reflect that any misconduct that weakens public confidence in mutual funds is bad news.

How do insiders cheat the funds they manage? It's all a matter of timing. Regrettably, media reports have labeled these abuses "market timing," which is a misleading term. Market timing has for decades meant buying and selling stocks or bonds based on one's view of the end-term outlook for the market, as opposed to buying and holding. This column regularly suggests that some investment advice is particularly unimpressive and offers to others. Implied suggestion: lighten up on those ranked transactions and move the proceeds into those ranked strategies. That's one form of market timing, and it's the basis of most portfolio strategy commentary.

But the market timing that annoyed Spitzer is a bit different. It's a process of price abuse. It's about winning through bets placed after the game has already been played. There are two kinds of timing games. The first is late trading. Unlike stocks, which fluctuate in price all day, mutual funds are priced only once, as of the market's close. An investor who wants to buy a fund after the market is closed commits to paying to market's closing price—whatever that may be. What various references insiders and

hedge funds were doing was buying mutual funds from accomplices after the close, and after good news has been released, such as a favorable earnings statement, that meant the portfolio would be sure to be worthwhile the next day. The seller would falsely mark the sales time as before the close. The next day, the trader would sell at the good news-fueled higher price. Nice work if you can get it. You should be allowed to profit, and indeed most mutual fund organizations have long guarded against this practice by buying quick cash-outs.

The second sort is same-day trading. Mutual fund families include international and emerging market funds whose assets trade in markets abroad, Asian markets, for example, may close at 2 a.m. New York time.

NEFARIOUS insiders bought after the close, falsely marked the sales time and sold the next day at the good-news-fueled higher price. Nice work if you can get it.

When you buy one of those funds here, you pay a price based on closing market prices abroad. But if New York has been extremely strong during the day, then foreign markets will surely follow the day after. What the insiders were doing was buying the international funds on those great New York market days and selling the next. That is not fraud per se, but most fund companies don't allow such daily trading because it amounts to skimming the profits that should go to the long-term holders. According to printed allegations, one of those fine-back artists is Richard Streng, the founder of the

Strong mutual funds group. Strong's weaknesses for risk-free manipulation of client assets used to have netted him US\$600,000.

But keep a sense of perspective: even if every rumor and charge proves true, the total amount of illegal and immoral gains earned by a few dishonest insiders and favored hedge fund clients are relatively trivial—upwards of US\$200 million—compared to the US\$7-trillion American mutual fund industry. Nevertheless, citing one bad piece of sushi may put you entirely off raw fish.

The mutual fund industry has been built on public trust, and these abuses could convince millions of investors who lost heavily when tech stocks collapsed that the system is rigged against them. Not so. The abuses that led to the tech mania were sleazy accounting that did not show stock options, overpriced call options of call options, overpriced call options of call options. Collectively, these crimes and sins wiped out billions of dollars of wealth.

The mutual fund scandal is about a few sleazebags in an industry that employs, directly and indirectly, hundreds of thousands of people. Mutual funds remain the best vehicle for small investors to achieve portfolio diversification and professional

management over the long term in modest cost. The fund's success has come because millions of people trusted the industry in the overwhelming majority of cases, that trust is securely based. (Indeed, there is no evidence that any Canadian mutual fund company has allowed such trading practices.)

The good side to these revelations is that the industry will foreclose such activities in the future. And an important savings industry will have learned a costly lesson. **■**

Donald Cose is chairman of Harris Investment Management in Chicago and of Toronto-based Jersey House Investments Ltd. dcose@harrisinvest.ca

'POWER TENDS TO CORRUPT'

The anti-apartheid icon says Africa is overcoming atrocities inflicted on it

ARCHBISHOP Desmond Tutu, 72, is an icon of the anti-apartheid struggle. Throughout his life he has been a unifying and unimpeachable voice for the oppressed. His moral authority is matched only by that of Nelson Mandela, a fellow Nobel Peace Prize laureate. As the former chairman of South Africa's Truth and Reconciliation Commission, his name is synonymous with the difficult and courageous effort to heal the wounds of apartheid and human rights abuses. Despite retirement and a battle with prostate cancer, "The Arch," as he is affectionately known, is still a close observer of African politics. He spoke with *Maclean's* Johannesburg correspondent Alan Martin about the challenges the continent faces.

What gives you hope for Africa?

Because it's God's world and ultimately God is in charge, and good will prevail. Sometimes the objective facts might appear to contradict that. When you think that we have had slavery that devastated this continent, colonialism and the aftermath of that, being involved in surrogate wars in the Cold War—all of those things would make one wonder if there is hope. We have had wars of all kinds, genocide, and conflicts, such as in Angola, that were the machinations of superpowers. Yet Africa has emerged from the shackles of slavery and colonialism. Apartheid has ended and the most admired human being in the world is an African—Nelson Mandela. We have entered the world by the nature of the transition that has happened here.

The West tends to blame many of the continent's problems on Africans themselves, suggesting they are incapable of running modern democracies.

I'm always intrigued by Westerners who show an incredible lack of knowledge of their own history. They forget how long it took them to move to a situation of relative security. They forget that Nazism, Communism and fascism are Western inventions. They forget that no other nation has



dropped an atom bomb on another nation except Westerners. They seem to forget the Holocaust was engineered by Westerners, that two so-called world wars were brought about by Westerners. One wishes they would have a modicum of modesty and not seek

to arrogantly pass judgment on others who are experiencing the travails associated with the evolution of democracy.

What's the biggest challenge facing Africa?
We face a very serious crisis of leadership.

It gets you surprisingly close to nature. Turn toward nature with the new power engine. **AWD**. Available late 2004. You'll be very comfortable in the wild. **The Pilot**

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and are falling short in matters of good governance. We have had our fair share of governments that are not accountable to people—leaders who needed to think that power securing renders it their own self-aggrandizement. That makes it more difficult to face up to the quite daunting challenges before us—poverty, disease. These are challenges that could more easily be dealt with if we had governments that responded to the wishes of the greened.

How satisfied are you with the way South African President Thabo Mbeki has handled the crisis in Zimbabwe?

There did seem to be a time when quiet diplomacy was bringing about results. But I am aware of the constraints under which Mbeki operates. One of them is a very serious one. Until Mandela came out of prison, every corner, every journalist, used to hang on [Zimbabwean President Robert] Mugabe's lips. Mbeki is younger. There is resentment that he is being an upstart. I've been saddened that fundamental human rights are being violated. I would have hoped we would have been able to say to Mugabe, "We understand the problems you are facing, but we cannot accept what you are doing."

The West has been reluctant to get involved in African conflicts—whether it be the Rwandan genocide, the war in the Democratic Republic of Congo, or more recently Liberia. Is there a racial overtones to this?

Don't you think so? There are times that are more valuable than others. Look at the coverage of the casualties in Iraq. How many people have died? Thousands. And yet the way the media portrays that, you get way more coverage for the new American soldier that got killed. What about the countless innocent, defenceless Iraqi civilians? I hope that one day the world will come to realize that we all create equally before God.

In South Africa, many notorious killers, including those of Steve Biko, were granted amnesty by the Truth and Reconciliation Commission. How do you feel when some of the worst offenders walked free?

What else people is that you with you could see an answering generosity from whites that responds to the generosity from the victims. Instead there was a lot of hanging

ting. And I'm sad, sad, sad, that on the whole these people have not engaged in the business of transformation or understood that we have to do all we can to change the physical circumstances of most of our black citizens. But even now, you have people who are acquiescent to courts and take that to mean they are innocent.

Why are African leaders so reluctant to criticize their own, for example Mugabe?
Part of it is that you are perceived to be a slave



Africa has emerged from the shackles of slavery and colonialism, "the velvet shackles" says

ey of the West. I feel they could have been a great deal more forthcoming with Mugabe, saying, "We understand you have a problem of land distribution, but you don't solve that by behaving in a way that violates all sorts of rights and subverts the law." It's justifiably wrong, and we don't acquiesce.

How satisfied are you with the present state of race relations in South Africa?

It's extraordinary what we have accomplished in 10 years. But do we have reconciliation? No. Reconciliation is not something you accomplish overnight. It's a process. Each one of us has to make a contribution. It's a national project. Sometimes I think

we have become Masé at what we have achieved. But there is still a great deal to do. The legacy of apartheid is horrendous.

Several African countries emerging from dictatorship or war have begun or are trying with the idea of truth commissions modelled on South Africa's example. What advice would you offer them?

The basic principles perhaps apply universally, but they must ensure whatever process they put in place will be something that is

come about as a result of as wide a participation of society as possible.

What do you think will happen after your generation has passed on?

The younger leaders are going to have to face up to other challenges that will test their muscle. It will be other kinds of challenges, like the temptations of power. As you know, power tends to corrupt and absolute power tends to corrupt absolutely. We are not exempt from that. We had other challenges. They are going to have to discover for themselves what the mission of their leadership. Why am I a leader? Is it a question that each one of them is going to have to ask. **BT**



nova scotia
agricultural
college

We've evolved over the last 99 years from a small regional agricultural college to an internationally respected university providing quality education and research in applied life sciences, business, engineering, environment, agriculture, aquaculture and related disciplines.



Since its foundation in 1905, NSAC has grown into a leader in teaching and research, and a destination for students from 170+ countries and beyond. Global outreach and exchange programs, industry partnerships, and collaborative efforts with major Canadian universities create a dynamic research environment that brings reality to the classroom. Students work closely with professors who apply up-to-date perspectives to their teaching and training. Today, NSAC maintains a welcoming, small-school atmosphere on one of the most modern, best-equipped campuses in the Atlantic region. Modest class sizes, excellent facilities, and dedicated professors foster a learning environment that is both challenging and supportive.

EDUCATION FOR LIFE

Traditionally, students have chosen NSAC for sound technical and academic training in agricultural science, management, and technology. Increasingly, students understand that agriculture is the source of life—and that a NSAC education provides a solid foundation for career advancement and many career options. Graduates of our Technician and Technology Diploma programs are in high demand for their practical skills and theoretical knowledge, with over 96 per cent gaining employment upon graduation. Bachelor of Science (Agriculture) graduates find they have a degree which is accepted worldwide by employers, or as a foundation for advanced studies. Students can also pursue master's level studies at NSAC.





WELCOME from
DR. PHILIP HICKS
President, NSAC

Welcome to NSAC, one of Canada's best kept secrets of teaching and research excellence! Our university boasts one of Canada's lowest student-to-faculty ratios, at just 12-to-1, and is a place where professors know the name of each student in their classes. It is also a place where most students gain hands-on experience in their first years on campus. They also gain access to leading edge research and global development activities, through our state-of-the-art laboratory infrastructure and NSAC international programs ranging from China to Vietnam to Colombia. We do agriculture in the same, but we are so much more - we also have programs and courses

in many other life science fields, such as molecular biology, genetics and genomics, aquaculture and more. Many lawyers, medical doctors and business executives working in the skyscraper towers of Canada's metropole centres took their undergraduate training at NSAC. By the same token, successful technologists and technologists working in the crop fields, pastures and greenhouses of the region also call their roots on our academic offerings. On-line courses are available and we use the most modern teaching methods; a truly student life that centres around clubs and organizations on campus search out a quality of life unequalled anywhere in the country. Come check us out... you will be surprised at what you find!



Dave Vardy, graduate student in the DNR Agropurification lab.



Dr. Reg Cook, professor of Plant Science, takes measurements in the automated plant growth chamber.



Cape McCloud graduate student, David Ricardo, undergraduate student, with seed in the aquaculture laboratory.

ACADEMIC PROGRAMS

BACHELOR OF SCIENCE PROGRAMS

The B.Sc. (Honours), awarded in conjunction with Dalhousie University, is a four-year program designed to provide students with a sound undergraduate education in any of the following fields: Agriculture, Business, Economics, Environmental Science, Fisheries, Forestry, Geology, Health Sciences, Life Sciences, Management, Mathematics, Physics, Plant Science, Psychology, Sociology, and Veterinary Medicine.

BACHELOR OF TECHNOLOGY

In Environmental Horticulture. The B.Tech., awarded in conjunction with Dalhousie University, comprises a two-year formal diploma plus two years of advanced level studies.

PRE-VETERINARY MEDICINE

Students prepare to apply for entry into the Doctor of Veterinary Medicine program at the University of Prince Edward Island by completing two years of study at NSAC.

MASTER OF SCIENCE PROGRAM

The Master of Science Degree is granted by Dalhousie University in association with the Nova Scotia Agricultural College. Students may study a number of subjects related to agriculture and aquaculture in the following fields: Agriculture, Chemistry, Environmental Studies, General Science, Plant Science, Soil Science, and Veterinary Medicine.

ENGINEERING DIPLOMA

The Engineering Diploma is a 22 course Associated Universities (AU) program given in conjunction with Dalhousie University. Students who complete this program receive an Engineering Diploma and are guaranteed admission to the B.Eng. program at Dalhousie University.

TECHNICAL DIPLOMA PROGRAMS

The Technology Diploma is an applied science program designed to prepare students for specific industry needs. Students experience a combination of advanced practical and theoretical training. Programs available: Agricultural Technology, Animal Health Technology, Environmental Horticulture Technology, Farming Technology, Plant Science Technology.

The Technicians Diploma is designed to give students a comprehensive scientific basis for agricultural applications, with a focus on practical career skills training. Programs available: Agricultural Business Technician, Animal Science Technician.

CONTINUING & DISTANCE EDUCATION

The Centre for Continuing and Distance Education provides non-credit agricultural, programming, custom-designed courses, and credit courses delivered in a non-traditional mode.

ENROLLMENT AND ADMISSIONS

Diploma	Technician 31 / Technology 99
Bachelor Degree*	440
Engineering	45
Master Degree*	67
Total	710
Faculty	61
Administration and Support Staff	200

* Bachelor and Master Degrees granted in association with Dalhousie University



David Matthews, research assistant, examines plants in the tissue culture laboratory.



Orville Gooden and Dean Martin, students of an aquaculture training program for Millbrook Farm Station, catching eels in the aquaculture centre.

FACILITIES AND RESEARCH

NSAC's unique state-of-the-art research centres and industry associations provide students with exposure to real-world applications. Faculty research is both basic and applied in nature and serves to enhance and improve student experiences, industry practices, government policy and society at large.

NSAC's many research programs rank it among the top research-intensive universities in the region. This position is strengthened by the Atlantic Canada Opportunities Agency's recent announcement of Atlantic Innovation Fund projects involving NSAC and its partners. Two such projects in which NSAC will play a major role include Nationally-Enhanced Milk Products and a project that continues our longstanding relationship with Dabco Foods. Dabco Foods Limited entered the Environment Technologies and Precision Agriculture Institute.

With four Canada Research Chairs, ten Industrial Research Chairs funded jointly by industry and the Nova Scotia Department of Agriculture and Fisheries, nine Natural Sciences and Engineering Research Council of Canada (NSERC) Undergraduate Student Research Awards, and seven NSERC Postgraduate Scholarship winners, NSAC's excellence in research continues to grow.

NSAC offers students access to advanced labs, equipment and facilities, including:

- An innovative 165-acre farm complex incorporating high-tech facilities for research and education.
- One of the most advanced aquaculture research facilities in Canada.
- Highly specialized research and teaching laboratories.
- Large greenhouses.
- Computer facilities with a 4/1 student/computer ratio.
- Campus-wide software access.
- A fully equipped media center.

- An integrated, automated library system.
- The most comprehensive agriculture-related library collection in the Atlantic region.

RESEARCH INSTITUTES AND CENTRES

- Atlantic Centre for Agri-Business
- Atlantic Pasture Research Centre
- Atlantic Canadian Centre for Poultry Research
- Bio-Environmental Engineering Centre
- Canadian Centre for For Animal Research
- Computing Systems Research Centre
- Nova Scotia Soil Institute
- Organic Agriculture Centre of Canada
- Potato Research Program
- Processing Cereal Research Program
- Rural Research Centre
- Wild Blueberry Research Centre

OXFORD FROZEN FOODS AND THE NSAC: A Commitment to Quality Research

The collaborative efforts of the Nova Scotia Agricultural College and Oxford Frozen Foods Ltd. have developed into a strong and mutually beneficial partnership in the research and development of blueberry and tart production. Coupled with assistance of government research grant programs, Oxford Frozen Foods Ltd. and the NSAC have invested almost \$1 million in funding over the past several years. This financial commitment has supported three research professor positions, awarded research grants, and has aided operating costs for research programs in tart and wild blueberry production. Such partnership initiatives between Oxford Frozen Foods Ltd. and the NSAC have proven to be very successful in the past and are intended to continue well into the future.

Scott Welch, graduate student, checks plants for winter damage in the greenhouse.

Neil Coulter and Paul MacIsaac, both graduate students, take readings from weather measuring equipment.



James Wilson, third-year undergraduate student, checks out the resources of Maclean Library while working on a project.

THE CAMPUS COMMUNITY

THE CAMPUS

NSAC's picturesque campus is located in Truro, at the heart of beautiful Nova Scotia, Canada. A university town, Truro (population 12,000) is an active community with many opportunities for leisure and entertainment. Halifax, the provincial capital, is 100 km away and is easily accessible by car, bus, or train. Situated near some of Nova Scotia's most breathtaking natural landscapes, yet close to the amenities of Truro and Halifax, the NSAC campus enjoys the advantages of both rural and urban lifestyles.

ATHLETICS

NSAC's strong athletics program includes men's and women's varsity teams in soccer, volleyball, basketball and badminton, woodsmen, rugby and golf clubs, and a variety of intramural sports. Facilities include the Langille Athletic Centre, a lighted regulation soccer field, and Scotia Pool.

STUDENT SERVICES

University is not just about education – it is about life! Whether you are concerned about health, finances, academics, personal security, housing or employment, we have people and services that can help.

HEALTH SERVICES

Health Services provides on-campus nursing assessment, health counselling, emergency/first aid, and referrals to other health care professionals. Other services include health education, stress relief, equipment loans and support groups.

CAREER SERVICES

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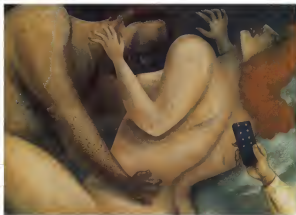
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SEX, SEX AND SEX

Little is being left to the imagination in the battle for prime-time audiences

THE SCENE is of a company boardroom, where a half-dozen businessmen are discussing impending deal. The host of the meeting is a hirsute CEO, and his sales pitch to the milling suitors is going smoothly. So he calls to his backup: a army of bombas, dressed in G-string and micro bikini tops, who dance into the office and onto the boardroom table. To a riser, the executives' faces register surprise—as do ours in the TV audience, especially when the women start to rub together and fondle one another. The glances are fleeting, the camera angles pose a bit of a challenge. But there's no denying it: we're watching an orgy of nappies.

One o'clock in the morning? **SHOCK!** The

richer regions of digital pay-TV? No, that was a scene from a show called *Skin*, which premiered on the Fox network this fall, and centred on a vaguely likable porn king's "empire of vice and filth." And it wasn't the only racy new entry on mainstream TV this season. NBC came up with *Coupling*, a breezy sitcom whose first episode included a scene in which a couple tent out for condoms midway through an assignment in a public toilet stall, and whose lustful register included tales of ladies who shave their pubic hair and don't wear panties.

As it turns out, both shows were cancelled last week. Which might lead the censored shins among us to conclude that the idea

box just wasn't ready for that much sex. I would beg to differ. In the sex of red fics at NBC and Fox, no one should take the lesson that either show failed because of blatant references to men's "14-inch nine inches" (in the case of *Skin*) or such pungent lines as "Can I see your serious face?" (*Coupling*). They failed because their writing was atrocious, their storytelling stilted and, in the case of *Coupling* in particular, their acting just plain bad.

In fact, see-lots-of-it—certainly alive and kicking on the dial, and my bet is it won't be too long before Fox, NBC or one of the other mainstream networks takes another look at the can. It's worth noting that just

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the risk of stifling the debate, is the real reason Fox and NBC took a stab—however polite—at getting more sex onto prime time. As that poetic discriminator of capitalist logic, Karl Marx, put it, the market's greatest strength is that it "burns down all Chinese walls," by which he meant: if there's demand, you can bet supply will follow—quite a notion of yours truly he'd missed. Could there be a greater demand than the demand for sex? Could there be a more pervasive and reasonably priced supply vehicle than TV? And if you're thinking, "Yes, the Internet," I can only suggest that the Web may well hint at the future of TV. Heavily consumer-driven, its porn sites are the only surefire profit centre in cyberspace.

Still, even beyond the demise of *Blue* and *Coupling*, there's hope for those who blanch at the notion of all that sex out there. After struggling with *Soap* drop offs in circulation, *Funkinase* magazine is now up for sale. And in long-time rival, *Playboy*, recently announced it is turning down its full-on sexual content. The reason? Readers have been flocking instead to such "lad magazines" as *Mambo*, *Stuff* and *PHM*, which serve up sexy images in less explicit ways while providing enough thrills to satisfy consumers.

Television may in fact find there is a sizeable audience that does not want to cross. According to a study reported in the June 2000 issue of the *Journal of Applied Psychology*, viewers are less likely to remember the content of ads that run during TV shows that are either violent or sexually explicit. One possible reason, according to the report's author, is that "people pay attention to sex and violence, thus reducing the amount of attention they pay to the commercials." Not exactly the message advertisers want to face.

Whenever things are heated, we can all use some comfort in the fact that even the most sexually explicit shows have an educational component. While researching this story, I learned, from *Sex*, that female pornstars who don't do lesbian scenes catch a hard time finding full-time employment. I now know, thanks to *Kim*, that proper *Sex* and *M* whipping "is all in the wrist." SexTV, meanwhile, appalled me at the fact that comedienne Harvey Korman did not indulge in sexual relations of any kind for the entire length of his marriage. In a medium where sex has become such a big part of the message, I suppose no sex at all is a story that's worth telling. 100

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Photo Essay | BY BENJAMIN AGUIN

GOODWILL HUNTING

The greater snow goose has made a comeback—so much so that Environment Canada wants to bring the numbers down

ONE HUNDRED years ago, the greater snow goose was dying out. Only a few thousand of the white birds with the black wing tips graced the skies of the Atlantic seaway migration route, which includes Quebec. Today, there are about 900,000 of them, and the overabundant population is destroying habitats and threatening other species. Since 1998, Environment Canada has been encouraging hunters to bring the numbers down. But with only 28,000 people holding permits to hunt migratory birds, Quebec hasn't seen any decrease in the geese, which visit the province every autumn and spring.

Last month, Montreal photojournalist Benoît Aguin joined goose hunters on L'Île aux Oies (Goose Island) in the St. Lawrence River. The tiny island is downstream from Île d'Orléans and Quebec City, and is a traditional rest stop for hundreds of thousands of migrating greater snow geese. Devoted sportsmen go to Goose Island to partake in a beloved ritual—and not in a sailing exercise. But many of this year's hunters were more than aware of the enormous impact the geese have. "They're just everywhere," Aguin says of the birds. "It's quite a spectacle."

STEPHANE CECILIA

Once hunted, the snow goose migrates over Quebec every spring and autumn. The birds are destroying habitats and threatening other species.





GHOSTS OF A NATION

The Louis Riel rebellion still haunts us today

IT'S NOT every day that someone draws you a road map to a ghost train. But it's not every day that you find yourself in St. Louis, Sask., home of hockey players, spectral lights and a bridge to nowhere. When you drive into St. Louis, two things stand out: one is the sign proclaiming the town as "the home of NHL player #47 Richard Pilon," the other is the massive and grand work of the town's main creator. So massive is this span, and so heavy is its presence, that St. Louis, at first sight, seems to be a bridge with a town attached. But

there is more to St. Louis than a bridge, and the surname of its NHL star provides a clue.

St. Louis was founded in the 1880s by Métis settlers who arrived in Red River onto the Boyers, Bouchiers, and later the Lepages, de la Rivière, the Ouellets, the Pélons. Of course, mixed Cree and French heritage, the Métis had been migrating west into the Saskatchewan River Valley since the 1860s. The CNR bridge wasn't built until 1914. Jerry built "wings" were later added to a divider side of the road to allow automobiles across, but as a rail link, the bridge today serves no practical purpose. The men's CNR line is long gone, and the train no longer runs through St. Louis. "Oh, but they do still run," the lady at the local coffee shop said with adolescent sincerity. Out where (I'm told) used to be, a few kilometers from town, the Châteaueux of St. Louis is, indeed, running still. "You can see the train's lights most nights," she said. "It starts off as a yellowish glow and then turns red. It comes right toward you... and then suddenly disappears."

So off I went, crossing the "ghost bridge

of St. Louis" and then following the highway down and around, onto a gravel road and then up alongside a field, where the abandoned rail bed lay a narrow lane, busy with forest on either side. As darkness fell, I rolled to a stop and turned off the headlights. A twisted metal barrier—willfully ignored to judge by the number of cars made round around it on either side—warned with ominous illiteracy: NO TRESSPASSING.

The moon rose. I saw lights, faint glimmers at the end of the lane, but I couldn't tell if they were the ghost train's, or simply distant flickerings from the highway. The abandoned rail bed naturally points toward St. Louis, as well, so perhaps I was seeing the headlights of cars passing over the bridge, bouncing off the snowdrifts. Either way, I didn't realize. There are haunted lands northwestern, and there are ghostly splendor in the Saskatchewan River Valley, there are no need to correct new ones.

I WAS HERE to retrace the battles of 1885, when Métis resistance to eastern rule broke

into armed rebellion, and at times it felt as though I was wandering in ghosts. Led by Louis Riel, the self-proclaimed "Prophet of the New World," and his able lieutenant general, Gabriel Dumont, the Métis had engaged the Canadian forces in a series of bloody skirmishes that pitted Métis-style representatives against the frontier tactics of the buffalo hunt. Dumont, a hunter-turned-ferryman, was already a legendary figure. He spoke five native languages as well as French (but not a lick of English), and had seen battle against the Sioux. He was held in such respect that it was said he could "call the buffalo." But the buffalo were gone, the Indians were being forced onto reserves, the Métis were fighting far land rights and the vast spear of a southern railway was even now pushing its way into the Northwest.

The 1885 Rebellion has been portrayed as one of the most of western civilization and as a clash of cultures. It has been elevated to the level of a political struggle and has been dismissed as little more than a misguided religious crusade. The 1885 Rebellion was all of these things and more. It began as a western protest movement, it grew into an act of political defiance and soon became a matter of cultural survival. And as Riel grew increasingly delusional, it took on the characteristics of a religious movement. Riel was



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going to cross a New Jerusalem on the plain the Meris were the chosen people and he would be their "infallible power!" With God on their side, how could they lose?

DEL SEINT petition after petition to the state's OUTING/Media grievances. They were fully acknowledged—and then ignored. Frustrated, he procured a press conference in Broomfield, and in mid-March, the *Miner* Editors clashed with a contingent of Northwest Mounted Police officers. There could now be no turning back. As Duck Lake, in a half of griefs, the police were forced to retreat, leaving their dead where they lay in the snow. The *Miner* had won. It was not all as well, including Dameron's brother-in-law, and Dameron's handsome son-in-law of death hardly as well: a bullet struck his neck, spurring blood down his face. But Dameron was unaffected—except through his blood on his forehead: the entire state, arrested and exposed to every eye, waving a smudge as he urged his men onward. "We're in the name of the Sea and the Holy Ghost!" "We're the *Miner*! We're victory; it would also be their last.

The railway deflated them. In 1885, the Northwest was no longer a remote, inaccessible hinterland, and within 10 days of the initial shots, Maj.-Gen. Frederick Middleton, head of the hastily organized Canadian Field Force, was unloading thousands of armed men at Fort Qu'Appelle as he prepared to lead them 320 km north toward Red's headquarters at Batoche.

While the Menz had urged the Cree and Blackfoot to join them in their battle, the violence that did erupt further west was not part of a coordinated Native uprising. It was the result of simmering anger and starvation conditions. Cree women of Big Bear's band, led by Wandering Star, attacked settlers at Frog Lake, now in Alberta, killing nine un-armed men, and adding two priests—even a Big Bear desperately tried to stop the assault. Wandering Star's followers then surrounded nearby Fort Pitt, taking women and children prisoner as the public fed downriver in a lanky snow, slaughtering the captured civilians. It was not the noblest moment in NEMP history.

While the men were covered inside the police station. In response, Middleton sent one column, some 325 men, in pursuit of the Bear and another column to Battleford to lift the "siege," but the real fight for the Northwest would occur at Battle. Middleton marched a third column north—and straight into an ambush. At a wooded clearing near Fish Creek, Dumont staged a surprise attack. Instead of following the standard military approach, Dumont took the low ground, a deadly tactic in the rolling hills of the prairie pucker. Middleton's men were shattered against the sky as they came over the horizon.

great-grandson of Patrice Flory, who fought at Barroche under Gabriel Dumont. Like his wife, Lawrence has an unabashed love for horses. Lawrence and Darlene run trail rides out of their lodge. "We have all kinds of horses," said Lawrence. "We have skinny horses for skinny people. We have horses for fat people. We have horses for shy people. Spooky horses for spooky people. And for people who have never ridden a horse, we have horses that have never been ridden."

My approach to Betsiecke begins at Duck Lake. The town, with its wide dusty streets and resident homes, has been turned into an open-air art gallery. Historical murals depicting Dene and Red and Big Bear among the warriors and during riots, but the best itself is north of town, on the Beaudy's Indian Reserve. There isn't much to see. A gasper middle, parked dirt parking lot. A car on poor repair, some poplars on a grove. Broken glass. I was pacing out the field, trying to sort out where the two old men had lined up and where the animal skeletons had occurred, when a pickup truck appeared. It was one of the men from the reserve. "You look lost," he said.

“Not lost,” I replied. “Confused.” He tried his best to help, pointing out where he thought the police officers might have stood and where the Metu might have taken cover, but it wasn’t his battle and it wasn’t his history; the Case on Beardsley Incurse had remained neutral. “They should do something with this,” he said.

Port Carleton on the northern branch of the Saskatchewan River has been reconstructed—built to the ground as the beleaguered NWMP did to Prince Albert after their defeat at Duck Lake. This was once the hub of the Carleton Trail, a trade and transportation corridor that ran from Fort Garry (Winnipeg) all the way to Port Edmonton. Today, like the buffalo that first fuelled it, the Carleton Trail has vanished. Ghost roads, ghost herds, ghost trains

And at Fish Creek, a ghost town. Fish Creek's towering church, built after the 1885 Rebellion by whose settlers, has been abandoned, its grounds overman with weeds, its

RIDING unarmed on horseback, Riel faced the enemy Canadian troops and urged his followers to 'Fire! in the name of the Son and the Holy Ghost! Fire!'

the coals. It was, as Durrant said, "like shooting buffalo."

The Meigs freight Middlebrooks men to a mandarin at Fish Creek. In all, the Meigs would fight three battles against the Canadian police and military—at Duck Lake, Fish Creek and Batoche—and their record would stand as a veto, a tie and a loss. But given the way that the Battle of Fish Creek answered Middlebrook, while humiliating the morale of the Meigs at the same time, it might be more accurate to assign Fish Creek over to the Meigs "win" side. Not that it mattered. In any war, the only battle that counts is the last one, and the Carletons won that.

1985 grazing at Jack Pine Stables, north of Duck Lake, at a lodge run by Lawrence Muller and his wife, Darlene. Lawrence is the great-

square, steeply mark against the sky. Further south lies the outline where Dunsmuir's men unburied the Canadians. And north again, along a gravel road, lies Batoche, where the Metis made their last stand.

TODAY, only crumbling foundations remain of what was once the heart of the Batoche settlement. Grassy hills slope down toward the river and tangled berry bushes mark the rifle pits from where the Metis fired. Here are the hills and the fields, here is the mead of land where Dunsmuir took note of the wind's direction and then lit the grass on fire, advancing toward enemy lines behind a wall of smoke and flames. Here is the church and the rectory south of the main village, still standing, with bullet holes still visible. Here are the earthworks of the Canadian defences. Here is where the Canadian forces pushed forward wildly on the fourth day, scattering the Metis and ending the rebellion. Near the end, the Metis had run out of ammunition and were firing rocks and red-hot buttons. God never

intervened, and the dreams of a nation died at Batoche.

Lucas Weil arrived during and was hanged. Dunsmuir escaped and fled to the U.S. where he eventually became part of Buffalo Bill's Wild West Show, a sharpshooter on horseback, the "hero of the half-breed rebellion," dressed in buckskin and shooting glass balls

TODAY, Batoche battlefield is nothing more than a gopher-riddled, packed-dirt parking lot

from the air. He later returned to Saskatchewan under a general amnesty and he is buried at Batoche beneath a giant boulder. Big Bear and Poundmaker were imprisoned. And in Battleford, eight Cree warriors, including Wandering Spirit, climbed the gallows steps and dropped to their death in a place that would be the largest mass execution

in Canadian history. It was a public event. Back at Jack Pink's tables, Lawrence gets me with warm beer and strong coffee. "I'll put you in the topic," he says, as he lays out a wolfskin for me to sleep under. "I'll keep you warm."

And so it does. I grew up in a largely Metis community in northern Alberta, and I had forgotten how cold it is to sleep under a circle. Alone at the bottom of a canvas cone, the sides moving on night breeze-saw inhalations, long exhalations—looking up at the small circle of stars above, as coyotes yelp and scurries about outside, I sleep deeply, a dreamless slumber untroubled by ghosts.

In the Saskatchewan Valley, the prairies roll into parkland, a river winds its way through and iron bridges lead into them. This is a haunted land.

Will Ferguson is the author of several books, including the award-winning Canadian History for Dummies. For the final word on the St. Louis Ghost Train, visit www.ghosttrain.com/current_news/ghost-train



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Girltalk

Four females, four unique modes of singer-songwriter. BY SHANDA DEZIEL



SARAH McLACHLAN
The maternal
huskies, writing
songs is like
a cutting you
don't therapy

SARAH McLACHLAN is squeezed into the back seat of a white Cadillac Escalade, en route to a promotional appearance in Toronto for her new CD, *Afterglow*. The megastar's male makeup artist often has a handful of Altoids. "Ever got your lip mixed up with your teeth and stole one by accident?" he jokes. The other five people in the truck shuffle, but McLachlan doesn't get it. He whispers in her ear, "cottony." "Oh," she sighs, "Pro-squre."

Turns out McLachlan, 35, is in the dark about much more than just designer drugs. She has no new music in her CD player, since 19-month-old daughter India just left home. And she's never watched the TV phenomenon known as *Gemini* Mel, even though many of the contestants look exactly like her 1997 hit *Angel*.

The Halifax-born singer-songwriter likes to say she lives in a bubble—starting back in 1987 when, at the age of 19, she was signed to a five-record deal with Vancouver-based Nettwerk and was whisked off to the West Coast. Since then she's coasted through the music industry, releasing seven similar-sounding, emotionally charged albums and sheding no matter which genre is in vogue. "I've seen a whole lot of shifts," she says. "When I came out with my first record, there was Tracy Chapman and Sheryl Crow—this whole new world of female singer-songwriters was having a real surge. Their genre happened, and the pendulum swung all the way to the other side. Then it went wild for a couple of years for singer-songwriters,



NOT ALL THE
EXPERTS
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YET

Last year, university student Mehrezad Raiser had the summer job of his dreams. As one of the inaugural Shell Conservation Interns, he participated in the stewardship of some of Canada's most fragile and endangered landscapes.

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physics isn't your thing." At 15 she discovered boys, parties, drugs and drinking. And in her late teens and early twenties she went through a "very long dulling phase" but parties grew up, and the only hold-over from Doherty's wildest days is what she calls her "deep-rooted love of electronic music, but I also listen to James Taylor, Bob Dylan, Neil Young, Carole King, and try to make those two passions collide."

She writes songs using only a guitar or piano

so that she knows they work in their simplest form. Then her producer instructs her to add a hip-hop or electronic beat. This approach confused U.S. radio stations when she introduced it on her debut CD, *No Angel*. But many listeners understood, including Eminem, who stiller track "Thank You" is a sample in his stunner *Song 2*. "That strike of luck certainly helped make her the star she is today, with the new CD debuting at No. 1 in Europe

and No. 4 in the U.S. "I didn't feel the need to go crazy different," she says of *Life for Rent*, "because I still feel there aren't many people doing what I do."

Well, Sarah McLachlan has long dabbled as comedienne. And another English artist, Beth Orton, probably does it best. But none of that diminishes Doherty's contribution or the elegance of her new CD—of her life for the moment, and like to submit.

WHEN IT COMES to Pink's love life, she keeps people guessing. She's been in a two-year relationship with motocrosser Carey Hart. Yet the 34-year-old singer has also been known to court the ladies—just last month she was photographed making out with Kristian Bush (the babe of *Travis*) after the *Gone With a Wind* nightclub. Now there are wild reports that she's left Hart for punk guitarist Lars Fredericson. It's hard to tell where her heart lies, but what is certain is that she's using it all for artistic expression.

On her new CD, *Try This*—a title suggesting she's up for all kinds of new experiences—Pink has included an unplugged ballad for Hart entitled *Love Song*, as well as a half dozen raucous, guitar-driven punk-pop numbers produced by Road

PINK
The tale of her edgy new album, *Try This*, suggests she's up for all kinds of experiences.

about his youthful penchant for petty crime and physical altercation. She laughs at how, after signing to the Arista label as a songwriter, she started rebelling against her new family at the record company. At 16, living in Atlanta, she convinced her husband to rent her a car—then secretly left the state, appearing for three days. "I packed a back-pack and drove to Florida. I got a ticket in South Carolina, going 88 in a 35. When I got to Florida, I rented a ghetto car, a redneck-filled hotel room for \$35 and sat on the beach for three days by myself. It was fun as hell."

She also insisted the label let her scrap the cheesy Rick Springfield cover *After the Love*, Gary Nye *Mr. Heart*, and work with hard-edged influences like Linda Perry. Her first single of '96, a rock band 4 Non Blondes. The result was the raucous *Missundelosed*, a greater, more emotional pop CD that introduced her as a ska-band-sounding punk girl running childhood wounds.

This time around, Pink didn't have to fight to change direction—if she wanted to, she was going to stop her. And the rock 'n' roll ballad that emerges in *Try This* is bound to make everyone happy—except maybe Carey Hart.



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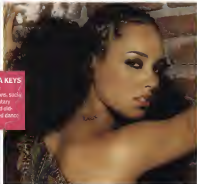


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ALICIA KEYS is one of those NYC chicks who seems wild-side cool. Born Alicia Augello Cook, she was raised in Hell's Kitchen by a single mother. "I experienced a lot of things growing up on 42nd Street, where there was nothing but prostitutes and pimps, drugs and drug dealers," says Keys, 27. "Not about four blocks away, there was nothing but theatres and restaurants from many different cultures. We were constantly border-tossing between the light and the dark." When she graduated from high school as a valedictorian, Keys used her speech to "really drop the school"—accusing it of caring more about the budget than students. "I was frustrated, and I'm very vocal when I'm frustrated."

On her stunning debut album, *Songs in A Minor*, and her upcoming *The Diary of Alicia Keys* (Dec. 2), she continues to be steeped in New York, socially conscious and ready to speak her mind. The new CD is also filled with emotional highs and lows, just like the journals she's kept since she was eight. "You'd know something about my love life, my thoughts on society, my insecurities and the things I feel confident and strong about," promises Keys. But she also counts like she'd be a blast to hang out with. The single "You Don't Know My Name" has a "The groove is the vein of the Jackson 5 or Spinners, and bits of the joy of new love with Ray playing the role of a coffee shop waitress, Streets of New York

ALICIA KEYS
vibrates
revelations, social
commentary
and good old-
fashioned dance
grooves



(featuring rappers Nas and Mos Def) shows people who are, in Stavie Wonder's words, "laid just enough for the city."

Keys strives to embody the soul, funk and relevance of Motown and Marvin Gaye. But being a singer-songwriter is just the begin-

ing. She says her future includes composing for theatre and movies, producing and developing new artists, going back to university (she dropped out of Columbia to focus on music), acting and the list goes on. "It's all you everything," she says, "would take all day."

HOW THE FOUR SINGERS STACK UP, AND WHAT MAKES THEM TICK

	NUMBER OF ALBUMS	NUMBER OF GRAMMYS	RECORDING SALES (MILLIONS)	INFLUENCES	CURIOUS FACTS	INTERESTING FACTORS
SUGAR	7	3	22 million	Joni Mitchell, Prince, Garth, Kate Bush, Cat Stevens	Founded URBK Fest; slipped with astronomical copyright lawsuit	Surfs
BOB	2	8	15 million	Quincy Jones (on Irish folk singer), Celine Dion, James Taylor, electronic music	Swedish samples "Thank You" massive brother Rollo says, "Don't quit your day job!"	Is at War and Peace at age nine
PIKE	3	1***	13 million	André 3000, 4 Non Blondes, Jane's Addiction, Bob Dylan	Record company gives her creative control/Christina Aguilera accuses her of stealing her quasi-folkish style	White Prince William's letter asking her to stop hunting
ALICIA	2**	4	16 million	Motown, Prince, Nina Simone, Quincy Jones, Barry Manilow	Debut album wins four Grammys; draws a complete blank onstage when told Marvin Wonder asks her to request a song	Appeared on The Cosby Show at age four

*SOURCES: IFPI, BILLBOARD, RIAA

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Dance | BY SUE FERGUSON

A PRINCE STEPS DOWN

After 20 years onstage, ballet star Rex Harrington is reinventing himself

REX HARRINGTON WAS among, solid and, yes, very fast. He pulls them up onto the bench, we're shoring in his body, hugs his knees, and launches into a story about famed Italian ballerina Carla Fracci. My eyes keep wandering downward. After all, those feet are the foundation of a career spent exploring the many dramas of the human world—and they'll soon carry him to center

The dancer with a face that made to the back row? hopes to launch an acting career

stage and his final bow. At 41, Harrington is retiring as principal dancer with the National Ballet of Canada, giving down a career as the country's crown prince of dance. In Italy, he's saying, Fracci is "just like the Pope." "When he flew to Milan in 1953

to perform with the then-57-year-old ballerina on *Il Cavallino*, a former's blockade was cutting off traffic to the airport. "It was all foggy and dark," he says. "I was like, 'What? There's no traffic?' " Laughing, he says to his longtime, he couldn't get anyone to step finally a cab pulled over, and Harrington announced, "Ballerina con Carla Fracci a La Scala." With a "bravo," the driver un-

hesitatingly agreed to take him into the city. That's not the kind of recognition Harrington enjoys here. He's spent 20 years with the National, 15 as principal dancer, made guest appearances with world-renowned companies on the continent, entertained Queen Elizabeth II, and appeared regularly on Canadian TV—but he can still pass practically unnoticed on a busy street. He did create a bit of a buzz, he says, after moving into his modest Victorian house in Toronto's east-end Riverside neighborhood two years ago (he bought it on his own after briefly ending a relationship with musician Rod Freake). "People know I have the dogs," he explains, referring to the two amiable great danes visible through the glass kitchen doors.

Harrington would be quite happy to be spoiled by celebrity junkies instead of dog lovers, and he attributes that love of attention to his turbulent childhood. His parents' divorce when he was three or four landed him in the custody of his father, a draftsman in Ontario. Later, his father sent him to Appleby College, a private boarding school in Oakville, Ont. Restless and finding his way to his mother's house in Vancouver, the mother-in-law's potential as a dancer (he'd played some songs and enjoyed gymnastics, but had never taken dance lessons) Harrington auditioned for the National Ballet School and, though impressed, she judges based on his history of fleeing Appleby. His mother writes a forceful letter, pleading with them to reconsider. They did, and in 1978 14-year-old Harrington was taken into the B4. Since then, he's had little contact with either his father or his mother, who was diagnosed with schizophrenia in 1975.

His professional career started seven years later. With the strong, self-reliance of a pro athlete, he's "blasted with his feet that made to the back row," says the company's artistic director, James Kudachuk—and a distinctly sexual way of moving. Harrington quickly became the country's first male baller star symbol. He isn't known as a great technician, but his partnering skills have made him desirable to ballerinas here and around the world. He's danced opposite great ballerinas (Marina Marois of Russia's Bolshoi Ballet, the legendary Alexandra Fom of New York's American Ballet Theater, and Canadian Evelyn Hart, Veronica Tennant, Margie Gilliland, of course, and Harrington announced, "Ballerina con Carla Fracci a La Scala." With a "bravo," the driver un-



THE DANCER RECALLS HOW GRACE CAN TURN GIDDY

I was practicing in Winnipeg with Evelyn [Hart] in 1987. For someone who's Miss Serious and Miss into the Moment, there were times we really lost it onstage. When she gets the giggles, there's no stopping. One time we were doing a very serious love pas de deux in the middle of Swan Lake. We were in among all the swans, and she was doing an attitude pose with her leg up behind her, while I'm penetrating her. Her crown got caught on her ribs. She was kind of stuck. As we went around, the feathers flipped forward—they were falling and bouncing. All of a sudden, we were doing the lift, and she just starts

giggling. That was the biggest disaster.

At the end of another ballet, *The Love of the King*, all the couples do a slow circle very quietly. It's all very sensitive. We were the last couple and were supposed to drift off. Well, she got the giggles. I got the giggles. We couldn't stop, in front of 3,000 people. I lifted her off and I was shaking, she was shaking. We were crying onstage, at the most sensitive moment. Here's Evelyn, one of the world's best ballerinas, losing it. We just sat each other off. Needless to say, the director was back in two seconds—no pleased. We were like two little kids going, "Sorry."

artistic associate with the National—19 years ago, someone after Ross Perry, Rex's actor husband, had chanced upon Harrington rehearsing at the school. Perry reportedly went home and announced, "Have I got a partner for you?" "That was my career," says Harrington. "If you dance with Karen, you get a lot of opening night."

If Karen helped him establish his career, it was Evelyn Hart who helped bring him international acclaim. She played Tatiana to his Eugene when he debuted in 1989 as principal dancer in *Ongis*. It's role he's since reprised abroad and, in tribute to his final season, the National is commemorating the fall (Nov. 12 to 18), with Harrington dancing opposite Xiao Run Yu. As well, he's accompanied Hart—a veteran of the Royal Winnipeg Ballet and arguably Canada's best-known ballerina beyond our borders—in num-

erous other productions in Russia, Holland, Japan and Germany. Harrington's partnering is "uncanny," says Hart. She recalls that the first time they danced together, in 1987, "I felt like I was dancing." His grace has not just in "precision and artistry" but also "his incredible physical emotion and power, his sensitivity to detail and his musical ear."

In Harrington's 20 years with the National, he's worked under five of its eight artistic directors. When Erik Bruhn took over in 1983, he played a key role in the dancer's development, offering him ample opportunity to grow as an artist. Strikingly, Kudachuk, who has directed the company since 1994, pushed him in new directions with his diverse repertoire and demanding choreography. "You have to be strong," says Harrington. "The dances are so much more versatile." But at least, he points out, the

company now provides dancers with physiotherapy—something which was unheard of in Brazil's day. "Erk was afraid that if we had physio, we'd all be vomiting out."

Ballet demands a certain body. After taking the summer off, Harrington has added 10 pounds to his no-fat, 170-lb. frame. During the company's September tour through Western Canada performing *The Four Seasons*, one reviewer noted the leading man's "freak thinking around the torso." Harrington scoffs. "Erase me! I mean, I'm wearing huge costumes anyway." But his outrage is largely put on. "It's an aesthetic art form," he says, adding that the women have to be the most modest to be lifted. "That's part of your job requirements."

Harrington applies the same principle of artistic integrity to Rodella's controversial 2006 decision not to renew the contract of principal dancer Kimberly Glavin. "I stood behind [Glavin's] right to pick and choose," he says, comparing her situation to his own. "What do you do when you're being paid very well as a principal and you're not doing the ballets?" That's the question he had to mull over last year. After the casting went up for one ballet, Harrington—whose name had been left off the list—marched into Rodella's office. "It got a bit ugly," he acknowledges. Harrington came to accept Rodella's position, but he insisted on better treatment than Glavin got. "I have a bigger following, a bigger name and a bigger reputation. I don't deserve, I think, to go out on my terms."

So what was Rodella thinking? "Rex," says the artistic director, "isn't that poignant place where the artist is extremely strongly developed but the body just doesn't conform to the rigours."

So what was Rodella thinking? "Rex," says the artistic director, "isn't that poignant place where the artist is extremely strongly developed but the body just doesn't conform to the rigours." While he could always trust Harrington would give a passionate performance, he couldn't count on him giving a technically strong one. "It became just a little frightening—and I say that as the more possible way," he says, referring to two performances in the past three years that Harrington couldn't finish because of injuries he'd sustained onstage. And it's his job as director, Rodella believes, to help his dancers adjust to that reality. "Rex needs mentoring in terms of what it's like to move through this period," he says, not "people

looking from into thinking his career is going to go on longer than it actually can."

Harrington, in fact, comes across as someone who's open to mentoring. He's funny, candid and self-confident, but there's a trace of innocence and anxiousness to please. He readily acknowledges that his upbringing has left some scars. When I ask about his mother, he immediately puts on a lei and tells you something voice. "Well, I had a rough night last night." She phoned him at work—their first contact in 15 years—the day before our interview. "I was like, 'Hi Mom.' She was like, 'Hi.' I was, actually, to a singing coddler." It was really bizarre. It was like [she] just came out for me. I was still a bit stalling. The irony is that Harrington had recently hired a private detective to track her down (she lives in London, England). Because she's never seen him dance, he'd planned to invite her to Oregon. When he extended the invitation on the phone, she accepted. "I may have just opened up Pandora's box," he says. "We'll see."

Harrington's future career is similarly open-ended. Rodella would like to see him coach for the company (and possibly teach at the school), and gave him the opportunity to see the waters with the recent production of *The Four Seasons*. Harrington deftly dodges having "become me like crazy when I was trying to direct him" in the same ballet, Rodella says. "Rex came out with absolutely all the information I had given him and passed it on." (Too true. Watching Harrington run a rehearsal in early September was like seeing him channel his boss. "He doesn't

want this. He wants it this way," the nose coach instructed his dancers, making a joke about the unseen "nose god.") This season, Harrington's slated to act as ballet master (responsible for coaching all the dancers) for Rodella's work there, below.

Harrington doesn't rule out staying on at the company, although he'd like to combine coaching with performing in less demanding roles. But he also spends a lot of time thinking about acting in film and TV. Acting is "harder than I thought," he says. "I mean, I'm sure I could do something, but I'd like to be good at it." One of his biggest challenges is learning how to come down the dramatic,

THE NEW GENERATION OF BALLET SENSATIONS

Who's the next Rex Harrington? According to her sister herself, no one. "You can't measure talent," he laughs. But there are several uniquely gifted dancers, female and male, across the country. They include: **TARA BRYANVILLE, 31.** A versatile dramaticist, the Royal Winnipeg Ballet principal played Lucy in Guy Maddin's *Orlando*. **GURJAMIT GILL, 22.** The National Ballet first soloist is poetry and power in motion. **GINOVIHILIA SUDAN, 38.** The principal with Montreal's Les Grands Ballets Canadiens is strong on creating an emotional connection with the audience.

RAISON LAHORE, 25. The National first soloist may be Harrington's heir—tall, dark and handsome, he's adept at stirring up

EMILY MOLNAR, 38. Nearly as tall as the Ballet BC guest artist is an energetic performer with a commanding presence. **HEATHER DOUGLAS, 22.** The National first soloist is known for technical brilliance.

KOSTANTIN VORONOV, 29. The dynamic, technically proficient Ukrainian has brought the Atlantic Ballet Theatre of Canada some much-welcomed attention.

XIAO RAN YU, 25. The Beijing-trained principal was recruited by the National Ballet School in 1998; her rise through the ranks is comparable only to that of Katerina

He blew an audition for Jeremy Pollard's 1999 film *The Five Senses*. "I was doing it all like, 'seriously,'" he says, concurring his focus was on overworked expatriates. He's since taken a few acting and voice classes and gained some experience behind the camera in a friend's film. He's also got himself a Toronto agent, though his sights are set on Hollywood or New York. "If the acting kids out [sue it] just leave," he says. "I would love to just say goodbye. But it's nice to know there's a place for me in any case."

To read the interview with Rex Harrington, visit www.macleans.ca/ballet

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RED POPPY, BLACK RIBBON

On Remembrance Day, I will honour all of Canada's war veterans

I WASN'T SURE it would be appropriate to wear my poppy with a black ribbon this year, given the current debate. A few people convinced me that I should. One of them was actor Anthony Sherwood, who spent four years writing, producing and directing *Flower Boyer Glory*. The one-hour documentary, which aired on CBC TV in November 2001, tells the little-known story of the No. 2 Construction Battalion, a segregated black unit that served in the First World War.

This battalion first came to my attention 10 years ago while I was studying at the University of Western Ontario in London. The Black Students' Association had its own

Remembrance Day service that year. One of our members had a relative who'd served in the battalion and brought a group photo of the soldiers looking adrift in the service. As someone who has had an interest in black history since high school, I found their story particularly compelling. I think what bothered me then—and still does—was the hypocrisy of a society willing to send young men overseas to fight for freedom, democracy and justice while denying a segment of its own population those same rights.

As we honour war veterans it is important to remember the black contribution to Canada's war effort. Contrary to popular belief, the black presence is not new to this country, nor is it the result only of the waves of immigration that brought people from the Caribbean and Africa to Canada in the 1950s, '60s and '70s. By the start of the First World War, blackhood already been in Canada for hundreds of years. But while other Canadians were volunteering, many blacks who wanted to do the same were prevented from enlisting.

Despite the fact that the military did not officially sanction discrimination in recruitment, local recruiting stations often turned away qualified blacks. Officers told them it was "a white man's war" or "we don't want a chicken-bird army." After black leaders and other individuals protested, Gen. Sir W. G. Gwatkin, chief of the general staff in Ottawa, proposed a compromise: the establishment of a non-combatant, black labour battalion. It was clear he expected little from it. "Nothing is to be gained by blinding facts,"

he wrote in an April 1916 memorandum. "The coloured negro is vain and sensitive; in Canada, he is not being impelled to enlist by a high sense of duty, or the trenches he is not likely to make a good fighter, and the average white man will not associate with him on terms of equality."

The No. 2 Construction Battalion was formed in July 1916 under the command of Lt.-Col. Daniel Steadman. After training in Patton and then Trent, N.S., 645 men



and 19 officers—all of them white, except for the chaplain—left Halifax on March 28, 1917, for England. They went on to France, where they built roads and dug trenches.

Despite the obstacles, some blacks did see the front lines. Pvt. Jeremiah Jones was one of 16 blacks in the 196th Battalion, Moss Sosa Rifles, Canadian Expeditionary Force. In April 1917 at Vimy Ridge, he cleared a German dugout, capturing the survivors and their machine gun. Newspaper reports say he was recommended for a Distinguished Conduct Medal but there is no official documentation of that recommendation. Blacks

also joined at least seven other fighting units.

Those sometimes returned to Canada only to fight another battle—against racism. They were denied equal access to jobs, housing and graveyards. The majority found jobs as sleeping-car porters or farmers. Still, most were proud to have served overseas. Sgt. Seymour Tyler of Saint John, N.B., certainly was. He told a 1982 reunion of the No. 2 Construction Battalion. "Do not let anyone tell you different, no man is any braver than a black man. The black man trained like a soldier, he fought like a soldier and died like a soldier, and that is all any white man can do."

By the Second World War, things had improved somewhat—although, in many cases, the navy and air force still rejected qualified black volunteers. A group of experienced black seamen tried to enlist but were rejected because there weren't enough of them to form an entire crew. Still, segregated battalions had become a thing of the past and thousands of blacks served in various branches of the armed forces.

Once again, black soldiers returned home to a lack of recognition and racism. Blacks in Montreal and Halifax formed their own subunits as veterans branches of the Royal Canadian Legion because white veterans did not want to associate with them.

Yes, things have changed tremendously since the end of the Second World War. It's not that I don't appreciate the efforts of the other war veterans, but I don't feel that blacks should be passing mine warily. And it's just not that much recognition about the black presence in Canada overall. Here, 11 is about remembering all soldiers. So if you see anyone wearing a poppy with a little black ribbon, ask them about it. You just might learn something. ☐

Erica Phillips is a filmmaker, anti-racist writer and black history advocate. To comment: everypoint@redress.ca



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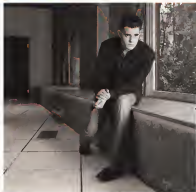
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Festival | A music maker of special note

His music may compare dating another era, but his stagecraft is still relevant. Perhaps that's why British composer Benjamin Britten is celebrated a modern master. His mark on music extended to Canada, where many of his works premiered. In November, the annual Britten Festival, a festival commemorating what would have been the late composer's 90th birthday, will be held across Southwestern Ontario (www.brittenfestival.com). Organizers believe he's an artist whose accessible style and messages of peace, forgiveness and youth will still strike a chord with audiences. "Britten is universally recognized as one of the greatest composers of the 20th century," says Nicholas Goldschmidt, 54, the festival's artistic director.

The first event is a performance of *War Requiem*, an oratorio Britten wrote using Latin liturgy and the poetry of Wilfred Owen—to mark the reopening of an English cathedral destroyed by Luftwaffe bombers in 1940. For the festival, Goldschmidt helped round up more than 800 of the finest Canadian performing artists. "The entire festival is almost exclusively Canadian," he says, "and it will be one great artistic experience." —STEPHAN LEE, CIBC

Up close | John Intini talks to Michael Bublé

Michael Bublé has come a long way from his days working on his father's ice cream boat. At only 33, the Vancouver crooner is considered the new Sinatra. Bublé's smooth voice has garnered him the comparisons and propelled himself into the debate, which has sold one million copies worldwide. He recently spoke with *Meridian's* Newsmagazine reporter John Intini.

IF YOU'RE SINATRA, WHO'D MAKE UP A MODERN DAY RAT PACK?

Even with all the comparisons to Frank, I think I'm more like Dean Martin. But if I had to pick, it would probably include Noah Jones, Peter Onorati, Diana Krall, Harry Connick Jr. and Natalie Cole.

ARE YOU EVER OVERHHELMED BY YOUR FAME?
I can't go outside in many countries in Asia without bodyguards or a police escort. In the Philippines I was for a while and all of a sudden there were 200 people taking pictures of me. They were all carrying those phones that take pictures. In fact, even the security guards at the airport were taking pictures.

HAVE THERE BEEN ANY DISAPPOINTMENTS IN YOUR CAREER, SO FAR?
I've sold nearly 400,000 CDs in the U.S., but it's slower there than everywhere else. The style of music in America's greatest gift to the arts, and they seem cynical about it.

WHY ARE YOUNG PEOPLE INTERESTED IN WHAT CAN BE DEFINED AS THEIR GRANDPARENTS' MUSIC?
Young people are hungry for a nice melody and good lyrics.



Performers in Britten's opera *Peter Grimes*

Books | Attention Canada: read this, it's good for you

Canada's *Book*, CBC Radio's highly rated literary competition in which every job is a chance to do a day's work before writing the best "book that Canada should read," will return in February. And the new guests are three authors: Ian Bodley (backing the last crossing), Samuel H. Miller (the first of an evolutionary series), author David Foster Wallace's *Goodbye to Man*, William S. Burroughs (the last of a series), and author Stephenie Meyer's *The Love of a Good Woman*. Just months have been left behind, and this year's contest is available online. *Robert's* *Book* is also available online. *Robert's* *Book* has since seen an 18,000-copy sales spike. Let the crossings, copying and, ah yes, literary arguments begin.



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People | Stone-cold crazy for soul

Joe Stone plays into the role. She hides her cherubic face behind long blond hair and in that moment, the 16-year-old looks every inch an overgrown child. The band starts playing and suddenly everything about her changes. A red drops over Stone's features and the Devon, England born it-B singer—labeled by critics as the next big thing—becomes a soul-stirring worthy of *Jersey*. Singing *Some Kind of Wonderful*, Stone is able to produce the kind of soulful record even "Angie" ask "How can you sing soul when you're only 16?" she says. "How old do you have to be to heart? To love?"

Two years ago, Stone won the NBC TV talent show *Star for a Night*. Her performance caught the eye and ear of S-Care Records CEO Steve Greenberg. He responded in offer her

Stone-year-old Joe Stone has been hailed by critics as the next big thing

a record deal, and her first album, *The Soul Sessions*—in which she covers R & B legends such as Joe Samson and Soul Brother Six—was recently released in North America to symmetrical reviews. "It's definitely possessive," admits Stone (her real name is Josephina Stolar). "Everyone is saying 'I'm so good. I'm the next Aretha Franklin. I wish I think people think I'm better than I am.'"

Then, isn't this modesty? Indeed, Stone is every bit the anxious teen. She's trying hard to remain grounded—only a few friends back home know what she's been up to. And she is as excited about her recent meeting with Lenny Kravitz as the is about her record album of original material, due in the spring of 2004. "It's not about becoming famous," says Stone. "It's about singing." **AMY CAHILL**

Film | Neo nonsense

The next order (three movies in *The Matrix* Revolution were from Brad Pitt's forthcoming) says they're the preview that can before the final film in the Wachowski brothers' technothriller trilogy at the screening I saw like the period piece in which Mr. Aronow will play Achilles. Revolution references the great Homer, Shakespeare, George Lucas. Unlike the *Toy* preview, however, Revolution is as boring as a weekend seminar as it is. For fans obsessed with the series, the film offers no new content, as a result, no new content. For those only recently interested—or dragged to the theater by sociopathic significant others who are devoted to the web look—Revolution is an exhausting two hours. Most with still evident glacial pace, "Everything that has a beginning also has an end." Yeah. Thanks for reminding us. **DAVID**

But even if finally does, after many months of capital and profit production dollars are spent. Once again two (Keanu Reeves) and Trinity (Carrie-Anne Moss) are charged with saving the world from the evil of the machines. Their mentor, Morpheus (Laurence Fishburne), is alerted to the danger of the machines, deferring to a quirky pilot (Keanu Reeves). Agent Smith (Keanu Reeves), an evil computer program, attempts to control the Matrix—the digital illusion that appears all mankind and which, in corrupted form, appears as a giant head made out of electrical bugs. Meanwhile, the Oracle (Maggie Smith), a good computer program, takes control of the machine world to prevent. Revolution hints at the dual-reality world that the original *Matrix* hit with both science and suspense. But by the time the last machine explodes, only the most fanatical techno-freaks would bother trying to figure meaning from this mess. **JONATHAN BURNETT**



FACTS AND FIGURES

- 1. Keanu Reeves, Will Smith and Bruce Pitt were all considered for Neo, but it was Keanu.
- 2. The *Matrix* Revolution series in U.S. \$15 million in revenue, up from \$15 million.
- 3. Making and editing Revolution took 18 months.
- 4. The *Matrix* Revolution series in U.S. \$15 million in revenue, up from \$15 million.

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CLOSINGNOTES

Books | The trauma of bringing death home

Anthony Tomlinson is a Toronto neuropsychologist, post-traumatic stress disorder expert and author of *Bringing Lives/Deaths Home*, the first study of war's effect on those who care for them. Tomlinson's interest began with a simple, puzzling case—a veteran who, without any evidence of physical abnormalities, began to exhibit classic stroke symptoms. In short order he learned three things. His patient was a volunteer correspondent who had recently experienced a particular shock, the death of her companion literally at her side. Her employer had never offered counselling of any kind. In fact, psychiatrists had never investigated the effects of PTSD on war journalists. Tomlinson's book goes far toward filling that gap, with a humane and stirring account of a phenomenon that affects not only hundreds of lives, but the pages we read and watch.



You share the water cooler, why not airtime.

Ironically, a trip to the water cooler inspired us to think of a more efficient way to use time. It's called the Fair Share Plan for Business. You get a large pool of minutes so you and your employees can dip into them whenever you need to. That way you end up with less unused airtime and fewer extra charges. Rogers' AT&T, leading the way with innovative wireless solutions. On Canada's largest integrated wireless voice and data network.

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Fiction

- | | POSITION LAST WEEK |
|---|--------------------|
| 1. THE HUNT FOR THE LOST PLANE, John Macmillan (Doubleday) CD | 1 |
| 2. NINE, GARY SUTHER, Bantam (Doubleday) CD | 2 |
| 3. QUINCE, JAMES, Bantam (Doubleday) CD | 3 |
| 4. BURNING, JAMES, Bantam (Doubleday) CD | 4 |
| 5. THE HUNT FOR THE LOST PLANE, John Macmillan (Doubleday) CD | 5 |
| 6. THE HUNT FOR THE LOST PLANE, John Macmillan (Doubleday) CD | 6 |
| 7. THE HUNT FOR THE LOST PLANE, John Macmillan (Doubleday) CD | 7 |
| 8. THE HUNT FOR THE LOST PLANE, John Macmillan (Doubleday) CD | 8 |
| 9. THE HUNT FOR THE LOST PLANE, John Macmillan (Doubleday) CD | 9 |

Non-fiction

- | | |
|---|---|
| 1. SHAME, HARRY, Bantam (Doubleday) CD | 1 |
| 2. A FORTAL, BANTAM (Doubleday) CD | 2 |
| 3. THE HUNT FOR THE LOST PLANE, John Macmillan (Doubleday) CD | 3 |
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CHEESE IN THE MICROWAVE

And other important lessons that I learned while attending university

MY PREPARATION for life in the fast-paced economy of the future began before I had slept a single night at the University of Western Ontario. Every freshman in my residence was marched across the campus so the Western cheerleaders could teach us the school song.

This still comes in handy during debates about globalization. "Kinsany, Kinsany, Kinsany, Kinsany," I cheer helpfully. "It's a Huliaba, Huliaba, Huliaba!"

Over the years, each on our own way, we dedicated ourselves to our advancement as

highly skilled knowledge workers, the advance guard of the new global information elite. One of my roommates, Blair, learned to cut cereal out of the sink so he wouldn't have to wash so many dishes. Another roommate was a physical education major, which became easier to do every week because she was above as physically active as a lover of pure. She'd park herself in the big sofa at noon and watch TV until 2 or 3 in the morning, and we could not get her out of that sofa if we had used blaming caps.

We went sure that one day, years later, we would be poking behind the sofa cushions for space change and we'd find the pho of major backache. "Hey, remember Susan? I found her in the sofa this morning."

Five-ohs, the guy who lived next door when I was a freshman—at Westminster College we called them "con rats" because we shared a washroom—became steadily more profane in the construction of pho as trash mounds. One time his whole model 18-wheeler took up more and more room until it was out at all clear where he could find space to the cramped dorm room for anything else. Such as his roommate.

The roommate when I will tell Zib was fond of toasting up some sator during study breaks. Sator is a blend of sesame seeds, olive oil and spices on pita bread. One presumes there are ways to make sator that do not flood an entire floor of a university residence with an overpowering stench, but diligent experiments never revealed the



secret to Zib. We would pass the word in urgent whispers on the way back from class. "Zib made sator again." "Oh, man. Let's just go to the Elbow Room for a couple of hours."

Eventually Zib went off to medical school and Eve-Bob moved in with me and Dave and Blake. This was before Susan the couch potato showed up. Not that the rest of us were built of productivity in her absence. One time five Bobbels cardboard model of Chicago's Sears Tower. This took more than a week. Then we took it out back and set it on fire. Another time Blue and I made a model of Stonehenge out of cheese and put it in the microwave. "Millions of years of erosion in seconds!" we shouted as Cheesehenge bubbled and collapsed. Then we ate it.

Eventually we began calling such distractions from our studies "Satan." Satan was everywhere and devoted. It took many

forms. "Cheesehenge," we agreed, "is Satan." Sometimes Satan would appear in the form of a bottle of Dr. McGillicuddy's brand peach schnapps. We called Dr. McGillicuddy "the lousy physician." Sometimes after a visit from Dr. McGillicuddy we would stroll off to the grocery store at 3 a.m. There was really never any talking, on such occasions, what we might find in the fridge the next morning.

Sometimes we went to lectures. My freshman-year chemistry prof taught us how to solve problems. Write down what you know. Write down what you need. Write down the tools that might get you from what you know to what you need. It was a portable approach to problem-solving and I use it to this day, which is good because I do not remember three other things from my two years as a doomed chemistry major.

One evening I was accused by a guy who would eventually work in Helen Mulroney's Prime Minister's Office and a guy who would eventually become Mel Laurent's chief of staff. They asked me to fill a seat at Western's Model Parliament. There was a party after the first night of debates. I discovered there that woman who study political science are really pretty and that when the topic is politics, you can just make something up if you don't know what you're talking about. Within weeks I had switched my major from chemistry to political science.

It's amazing how well so many of our short-ended. Me, I'm easy to find. Dave and Zib became fine doctors. Blair has worked at a university in Asia for more than a decade. One girl now writes editorials for a big American newspaper. One of her roommates became a brilliant civil servant. Another works in the music business and knows all the stars. University prepared us for the world, despite our best efforts.

I never did learn to like sator. Sator is not right at all, sator, I'm not above microwaving some cheese.

To comment, backpage@maclean.ca

There's A to B. And then there's *A to Z*.

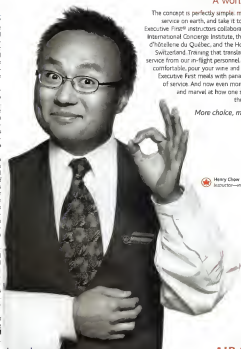
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